Skutch p1 159
Matuda p100, 147
Calderon 127

RECORD

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

B4-A1
Manufactured by
U. S. Government Printing Office

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Q
R
S
T
U
V
W
X
Y
Z

T

U

V

W

X

Y

Z

W

X

Y

Z

Request

3213

A. H. Sketch

Lichens by C. W. Hodge, Ferns by Brown, Grass by Chase, Acanth. by Leonard, Bromeliaceae by L. Smith, Pandanus, Cyclan. & Musaceae by Killip, Melastomaceae by Gleason.

1

1
2
3
2144 Pavonia dasypetala (Turcz.) Standl.
5 Micromitrium lamprocarpum (C. M.) Par.
6 Begonia cuspidata C. DC.
7
8 Rhacopilum tomentosum (Sw.) Brid.
9 Vittaria filifolia Fée
2150 Vittaria stipitata Kunze
1 Polypodium chnoodes Spreng.
2 Asplenium auritum Sw.
3 Polypodium pectinatum L., sens. lat.
4 Asplenium fragrans Sw. (Reduced form)
5 Lasiacis scabrior Hitchc.
6 Pipa formici-tolerans Trel. n. sp. type
7 Pipa subasperiatum Trel. n. sp. type
8 Pipa captum Trel. n. sp. type
9 Stictina andensis Nyl.
2160 Trichomanes polypodioides L.
1 Hemitelia multiflora (J. E. Sm.) R. Br.
2 Trichomanes rigidum Sw.
3 Polypodium plicatum Maxon, sp. nov.
4 Leptogium Standleyi Hodge
5 Psychotria involucrata Sw.
6 Salpichlaena volubilis (Kaulf.) J. Sm.
7 Lasiacis procerrima (Hack.) Hitchc.
8 Solanum ~~dioscifolium~~ ochraceo-ferrugineum (Benth.) Fernald Schlechtd.
9 Hyptis sp.
2170 Tagetes microglossa Benth.

2

217 1 Funastrum clausum (Jacq.) Schltr.
2 Hyptis suaveolens Poit.
3 Tibouchina ~~Bonpl.~~ longifolia (Vahl) Baill.
4 Piper vagans Trel.
5 Piper lineanfolium C. DC.
6 Eupatorium laevigatum Lam.
7 Valeriana mikaniae Lindl.
8 Ardisia compressa H.B.K.
9 Piper dactis Trel. n. sp. type
218 0 Dasaea rodosa (L.) J. E. Sm.
1 Dryopteris falcata (Lieb.) C. Chr.
2 Saccoloma inaequale (Kunze) Mett.
3 Piper marginatibaccum Trel. n. sp. type
4 Miconia serrulata Naud.
5 Salvia hyptoides M. & G.
6 Miconia dodecandra (Desr.) Cogn.
7 Oligantheo discolor (H.B.K.) Sch. Bip.
8 Oxypetalum riparium H.B.K.
9 Lasiacis ruscifolia (H.B.K.) Hitchc.
219 0 Henriettella tuberculosa D. Sm.
1 Calyptrella cyclophylla D. Sm.
2 Oyedaea verbesinoides DC.
3 Monnina sylvatica C. & S.
4 Manettia coccinea (Aubl.) Willd.
5 ~~Centrosorbonia costaricana Hunton n. sp.~~ Dryonia marmorata Hook. type
6 Centropogon nutans Pl. & Oerst.
7 Liscosea remota Hunton n. sp. type
8 Ponthieva racemosa (Walt.) Mohr
9 Peperomia tenuinervis Trel. n. sp. type
220 0 Pteris longens Willd.

2201

2 Philonotis uncinata (Schwaegr.) Brid.
3 Pteris biaurita L.
4 Begonia filipes Benth.
5 Borreria ocymoides (Burm.) DC.
6 Lasiacis Standleyi Hitchc.
7 Calyptrocalyx nicaraguensis Ren. & Cand. here to Costa Rica.
8 Microthamnium Lehmannii Besch.
9 Schroebrygium Gardnerianum Mitt. here to Costa Rica
~~Leptodontium flexifolium (Hook.) Hampe~~

2210 Phyllonoma ruscifolia (Willd.)
1 Clematis dioica L.
2 Hedyosmum callosa-serratum Oerst.
3 Oplismenus Burmanni (Retz.) Beauv.
4 Panicum pulchellum Raddi
5 Oplismenus hirtellus (L.) Beauv.
6 Selaginella eurynota A. Br.
7 Lycopodium cernuum L.
8 Paspalum conjugatum Berg.
9 Lexmenia frutescens (Mill.) Blake
2220 Siparuna patelliformis Perkins ?.
1 Ichnanthus pallens (Sw.) Munro
2 Ichnanthus pallens (Sw.) Munro
3 Scleria melaleuca C. & S.
4 Pteris biaurita L
5 Ipomoea syringaefolia Meisn.
6 Lasiacis oaxacensis (Steud.) Hitchc. fom
7 Rheedia edulis Tr. & Pl.
8 Cephaelis tomentosa (Aubl.) Vahl
9 Lindsaea arcuata Kze. det Kramer
2230 ~~Lindsaea lancifolia Hook~~

4

223 1 Coccocypselum hirsutum Bartl.
2 Pterolepis trichotoma (Rottb.) Cogn.
3 Lepidagathis alopecuroidea (Vahl) R. Br.
4 Desmodium adscendens Sw.
5 Cyperus diffusus Vahl
6
7 Casearia sylvestris Sw.
8 Desmodium intortum Mill.
9 Ichthyothere scandens Blake
224 0 Pleurs mollis Bhist
1 Lindsaea quadrangularis Raddi
2 Rhizogonium spiniforme (Hedw.) Bruch
3
4 Parmeliella parmosa Sw.
5 Trichomanes punctatum Poir ?
6 Begonia glabra Aubl.
7
8 Brachymenium radicalosum (Schwaegr.) Par. Mus & Costa Ric.
9 Trichomanes Galeottii Fourn.
225 0 Heliocarpus excelsior Morton n. sp. Type
1 Viburnum costaricanum (Oerst.) Hemsl.
2 Octoblepharum albidum Hedw.
3
4 Olyra latifolia (Presl) Chase
5 Coccocypselum canescens Wedd.
6 Cissus ~~cardioplegia Standl.~~ ? brevipes Morton & Standl. Type ex dem. ~~bifoliifolia Standl.~~
7
8
9 Cochlidium rostratum (Hook) Maxon
226 0 Clidemia rubra (Aubl.) Mart.

2261 Dioclea ? macrantha Ducke
2 Micania pteropoda Benth.
3 Barbiera pinnata (Pers.) Baill.
4 Rubus trichonallus Schlecht.
5 Hemitelia choricarpa Maxon
6 Heliocarpus excelsior Morton
7 Gouania lupuloides (L.) Urban ?
8 ~~Hymenostephium cordatum (H.+A.) Blake~~
~~Malvaviscus arboreus Cav. sim. dat.~~
9 Melochia lupulina Sw.
2270 Ipomoea purga (Wender.) Hayne
1 ~~Cyp~~ Elecocharis ~~interstincta (Vahl) R.+S.~~ geniculata (L.) R. Br.
2 Spilanthes americana (Mutis) Hieron.
3 Polygonum punctatum Ell.
4 Mikania micrantha H.B.K.
5 Vismia ferruginea H.B.K.
6
7 Oncidium Titania Schltr.
8 Psychotria brachiata Sw.
9 ~~Blechnum~~ Struthiopteris exaltata (Fée) Broadh.
2280 Polytaenium brasilianum (Desv.) Benedikt
1 Peperomia tetricola C. DC.
2 Tayloria Moritziana C. DC.
3 Piper sagittifolium C. DC.
4 Trichomanes krausii Hook. & Grev.
5 Asplenium pseudoerectum Hieron. (not distributed)
6 Asplenium pseudoerectum Hieron. (not distributed)
7 Peperomia gleicheniae formis Trel. n. sp. type
8 Peperomia antennifera Trel. n. sp. type
9 Trichomanes capillaceum L.
2290 Piper conceptum Trel.

229 1 Anthurium sp. nr. magnificum
Anthurium densinervium Engl.
2 Lippia ~~nigricephala C.V.S.~~ Costaricensis Mold. n.sp. type
3 Pipur heterophlebium Trel. n.sp. type
4 Monocardia violacea Pennell
5 Trismeria trifoliata (L) Diels
6 Anemia phyllitidis (L.) Sw
7 Dicliptera ~~acuminata Juss.~~ pallida Leonard
8 Cuphea infundibulum Koehne
9 Nephrolepis pendula (Raddi) J. Sm
230 0 Calliandra portoricensis (Jacq.) Benth.
1 Coix lacryma-jobi L.
2 Polystichum platyphyllum (Kaas.) Presl
3 Dryopteris Tonduzii (Christ) C. Chr.
4 Asplenium Otites Link
5 Blechnum occidentale L.
6 Adiantum tetraphyllum H. & B. (ens. lat.)
7 Hemionitis palmata L.
8 Acacia angustissima (Mill.) Kuntze
9 Sida urens L.
231 0 Eupatorium odoratum L.
1 Vilea pubescens Liebm.
2 Piper sublineatum Kuntze
3 Hymenophyllum ciliatum Sw.
4 Pipur sesquipedale ~~sesquipedale~~ Trel. n.sp. type
5 Trichomanes pyxidiferum L. (verum)
6 Lockhartia amoena Endres & Rchb.f.
7 Pipur pileatum Trel.
7½ Pipur pileatum Trel.
8 Euphorbia graminea Jacq.
9 Cyclanthera Tonduzii Cogn.
232 0 Myriocarpa izabalensis (D. Sm.) Killip

232 1 Myriocarpa isabalensis (W. Stm.) Killip
2
3 Allomarkgrafia plumeriaefolia Woods. New to mata Amer.
4 Specimen unidentifiable. Destroyed.
5 Perrottetia sessiliflora Lundell n. sp. type
~~Salacia praecelsa (Triana) Gamble~~
6
7 Scutellaria glabra Lenard
8 Asplenium fragrans Sw. (Reduced form)
9 Diplazium sp., near D. striatum (L.) Presl
233 0 Dryopteris Linkiana (Presl) Maxon
1 Dryopteris exculta var. guatemalensis (Baker) C. Chr.
2 Selaginella binervis Liebm.
3 Diplazium obscurum Christ
~~3~~ 4 Diplazium grandifolium Sw.
5
5 Peperomia Jimenezana (C. DC.) Trel.
6 Tovomitopsis glauca Oerst.
7 Dryopteris subincisa (Willd.) Urban
8 Tectaria Sodiroi (Baker) Maxon
9 Asplenium abscissum Willd.
234 0 Peperomia peltilimba C. DC.
1 Melanthera deltoidea Michx.
2 Bidens pilosa L.
3 Piper magnilimbum C. DC.
4 Diplazium subsilvaticum Christ
5 Vigniera sylvatica Klatt.
6 Centrosema Plumieri (Turp.) Benth.
7 Tinantia erecta (Jacq.) Schl. var.
8 Epidendrum Pseudepidendrum Rchb. f.
9 Mikania punctata Klatt
235 0 Serjania racemosa Schum.

235 ✓1 Polypodium angustifolium Sw
✓2 Entodon Hampeanus C. M.
✓3 Miconia leucantha Gleason
✓4 Asplenium Otites Link
✓5 Stenorhynchus speciosus (Jacq.) L. C. Rich.
✓6 Piper carrilloanum C. DC.
✓7 Asplenium cristatum Lam
✓8 Carex polystachya Wahl.
✓9 Trachus arundinacea (Sw.) Griseb.
236 ✓0 Tectaria lilacerata (Kunze) Maxon
✓1 Dryopteris equestris var. heterolepis C. Chr.
✓2 Cardiospermum grandiflorum Sw.
✓3 Mikania guaco H. & B.
✓4 Solanum ~~tiesta Wallich~~ celsum Standl. & Steyerm., n. sp. type ?
✓5 Mikania Standleyi Rob.
✓6 Calonyction aculeatum (L.) House
7 Ricinus laevis L.
✓8 Malvaviscus arboreus Cav. sens. lat.
✓9 Begonia conchaefolia D. Dietr.
237 ✓0 Salvia alvajaca Oerst.
✓1 Zexmenia virgulta Klatt.
2 Tovaria pendula R. & P.
3 Piper longepetiolatum (C. DC.) Trel.
4 Conostegia sp.
5 Miconia reducens Triana
6 ~~Thoracocharax sp.~~ Clusia oblanceolata Rusby
7 Dryopteris sp. nov.
8 Dryopteris submarginalis (L. & F.) C. Chr.
9 Cephaelis elata Sw.
238 ✓0 Peperomia pseudotetraphylla Trel.

238 1 Miconia ~~sp~~. flavoflora Gl. var. emiganus Gl. n. var.
✓ 2 Otopappus verbesinoides Benth. Comp.
✓ 3 Skutchia candata Pax & Hoffm. typus (Mex.
✓ 4 Ardisia compressa H.B.K. Myrs.
✓ 5 Vernonia argyropappa Buek det. Gleason (Comp.
✓ 6 Skutchia candat. Pax & Hoffm. ?
✓ 7 Holtonia myriantha Standl.
✓ 8 Cestrum ~~laurifolium L'Hér.~~ ? Baenitzii Lingelsh.
9 Lycopodium tuberculosum Maxon
239 0 Aechmea Bernoulliana Witton. Bro.
1 not recd
2 not recd
✓ 3 Polypodium blepharodes Maxon
4 Hiploschistes sp
✓ 5 Graphina sp.
✓ 6 Calea Pittieri Rob. & Greenm.
✓ 7 Plenothallis stenostachya Rchb. f. Orch.
8 Banisteria Beecheyana (A. Juss.) C. B. Rob.
9 Topobea Hurandiana Cogn.
240 0 Mimosa albida H. & B. var.
✓ 1 Peperomia liguscens C. DC.
2
✓ 3 Rhynchospora polyphylla Vahl not recd
✓ 4 Sematophyllum flavidum Mitt. hm to Costa Rica
✓ 5 Encidium Rechingerianum Kränzlin Orch.
✓ 6 Eupatorium pycnocephalum Less. Comp.
✓ 7 Vernonia canescens H.B.K. var. Gleasonii Comp.
✓ 8 Mikania cordifolia (L.) Willd. Comp.
✓ 9 Cosmos candatus H.B.K. Comp.
241 ✓ 0 Hamelia patens Jacq. Rub.

241 1 Polypodium sp. nov.
2 Pennisetum bambusiforme (Fourn.) Hemsl.
3 Hybanthus ~~attenuatus~~ occultus (Poiret.) Standl. (H. + B.) G. K. Schulze
4
5 Eupatorium vulcanicum Benth.
6 Cestrum ~~scandens~~ Vahl nocturnum L.
7 Solanum incomptum Bitt.
8 Buddleia americana L.
9 Begonia carpinifolia Liebm.
242 0 Dombeya leppaeca L'Her.
1 Polytaenium lineatum (Sw.) J. Sm.
2 Sommera grandis (Bartl.) Standl.
3 Alonsia microcarpa (Benth.) Rob.
4 Chaetocalyx latisiliqua (Klotzsch.) Benth.
5 Eupatorium solidaginoides H.B.K. form
6 Elaeteriopsis Oerstedii (Cogn.) Pitt.
7 Pachyphyllum ~~tuberosum (Lam.) Sprang.~~ vernale Clausen ?
8 Cassia sp. aff. Peiranisia longirostrata B. & R.
9 Baccharis trinervis (Lam.) Pers.
243 0 Henriettella sp. Probably new.
1
2 (Lisbon)
3 Catillaria sp.
4 13 (Lisbon)
+ 2434 A (Lisbon)
5 Porina sp.
6 Columnea florida Morton, n. sp. Type
7 Chamaedorea macrospadix Oerst.
8 Masdevallia attenuata Rchb. f.
9 Alchornea latifolia Sw.
244 0 Sauvagesia erecta L.

2441 Bellucia costaricensis Cogn.
2 Alchornea latifolia Sw.
3 Jussiaea affinis DC.
4
5 Masdevallia Lancheana Kränzlin
6 Polypodium linnala Christ
7 Miconia Mathaei Naud.
8
9 Psychotria sp. involucrata Sw.
2450 Hieronyma oblongavar. Benthamii (Tul.) Muell. Arg.
1 Solanum ~~sucrosum~~ rugosum Dunal
2 Baccharis trinervis (Lam.) Pers.
3 Justicia pectoralis Jacq.
4 Wissadula excelsior (Cav.) Presl
5 Indigofera mucronata Spreng.
6
7 Miconia ~~sp~~ borealis Gl.
8 Cuscuta corymbosa var. grandiflora Engelm.
9 Cestrum ~~sp~~ ? mariquitense var. latifolium (Francey) Standl. & Molin
2460 Eupatorium amygdalinum Lam.
1 Cassia brevipes DC.
2 Stylosanthes guianensis (Aubl.) Sw.
3 Aeschynomene sensitiva Sw.
4 Aeschynomene sensitiva Sw.
5 Tonina fluviatilis Aubl.
6 Jussiaea lithospermifolia Kunth
7 Xyris macrocephala Vahl
8 Desmodium barbatum (L.) Benth. & Oerst.
9 Rhynchospora cyperoides (Sw.) Mart.
2470 Scleria bracteata Cav.

247 1 Tephrosia nitens Benth.
2 " " "
3 Tristicha hypnoides (St. Hil.) Spreng.
4 Browallia americana L.
5
6 Burmeistera suerrensis Wimm. det. Gleason not rec'd
7 Miconia punctata (Desr.) D. Don ~~laetevirens Standl.~~
8 not rec'd
9 Piper delectans Trel. n. sp. Type
248 0 Diplazium citrifolium (Desv.) Maxon
1 Cladonia didyma var. muscigena (Eschw.) Vain.
2 Eupatorium vitalbae DC.
3
4 Sobralia pleiantha Schltr.
5 Scaphiglottis mesocopis (Endres & Rchb. f.) B. & H. ex Hemsl.
6 Phaseolus speciosus H.B.K.
7 Acalypha tenuicauda Pax & Hoffm.? ex char.
8 Vernonia patens H.B.K. det. Gleason
9 ~~Heraclitum Schiedeanum Cham.~~ Apinagia myriophyllea Wedd.
249 0 Neeland ~~villosa Benth~~ reticulata (R. & P.) Maz
1 Trixis divaricata (H.B.K.) Spreng. Apparently first No. Amer. record
2 Heliocarpus dentatus (Aubl.) Standl.
3 Palicourea costaricensis Benth.
4 Fissidens pycnocryptus Card. New to Costa Rica
5 Marila verapazensis D. Sm.
6 Carica dolichaula D. Sm.
7 Hampea appendiculata (D. Sm.) Standl.
8 Tovomitopsis glauca Oerst.
9
250 0 Miconia leucantha Gleason, n. sp. Type

250 1 Allophyllus psilospermus Radlk. ?
✓ 2 Senecio schizotrichus Greenm. n.sp. type
3 ~~Hieracium sp.~~ Conoclinia subcrenulata Trianae
✓ 4 Piper salulatrix ~~C~~ Trel. n.sp. type
✓ 5 Clematis dioica L.
6 Machaerium costaricanum Pitt. = long pleur Benth. & Hoehne
✓ 7 Neurolaena lobata (L.) R.Br.
8 Vochysia ferruginea Mart.
9 Cordia ~~glabra~~ L. ? ovalifolia Pitt
✓ 251 0 Simaruba ~~glauca~~ DE. amara Aubl. ?
✓ 1 Banara guianensis Aubl. var. ?
2 Mikania riparia Greenm.
✓ 3 Miconia ~~sp~~ dolichorhyncha Naud.
✓ 4 Mikania Skutchii Blake, n.sp. type
✓ 5 Brunellia Skutchii Morton, n.sp. type
✓ 6 Rhynchosia pyramidalis Lam.
✓ 7 Oyedaea verbesinoides DC.
✓ 8 Inga multijuga Benth
✓ ✓ 9 Hasseltia ~~mexicana (Griseb.) Standl.~~ floribunda H.B.K.
✓ 252 0 Cacistema aggregatum (Berg) Rusby
✓ 1 Hexisea bidentata Lindl.
✓ 2 Tristicha ~~hypnoides (St. Hil.) Spreng.~~ trifaria (Willd.) Spreng det P. van Royen
✓ 3 Peperomia cartagoana Trel.
✓ 4 Juanulloa Sargii D.-tm. nw
✓ 5 Vernonia bracteata Benth. det. Gleason
✓ 6 Dorstenia choconiana var. integrifolia D.-tm.
✓ 7 Trichopilia marginata Henfr.
✓ 8 Peperomia martagonifolia C.DC.
✓ 9 Trichomanes rupestre (Raddi) v.d.B.
✓ 253 0 Lepidopilum Skutchii Barta. n.sp. type

14

253 1 Asplenium lactum Sw.
✓ 2 Tectaria heracleifolia (Willd.) Underw.
3 Cyphomandra costaricensis D. Fn.
✓ 4 Tayloria Moritziana C.M.
✓ 5 Philonotis tenella (C.M.) Besch.
✓ 6 Eupatorium macrophyllum L.
✓ 7 Miconia scorpioides (C.+S.) Naud.
✓ 8 Hydrangea Skutchii Morton n sp. type
9 Ladenbergia ~~calycosa (Wedd.) Standl.~~ sericophylla Standl.
254 0 Ichnanthus axillaris (Nees) Hitchc. & Chase
✓ 1 ~~Mayto~~ Matayba n. sp.?
✓ 2 Dryopteris aspidioides (Willd.) C.Chr.
✓ ✓ 3 Selaginella flabellata (L.) Spring
4 ~~Trichilia Oerstediana C.DC.~~
✓ 5 Trichilia Oerstediana C.DC.
✓ 6 Tournefortia bicolor Sw.
7 Physcia soredicosa
8 Cissampelos pareira L.
9 Miconia argentea (Sw.) DC.
255 0 Pitcairnia heterophylla (Lindl.) Beer
1 Hymenophyllum fucoides Sw.
2 Trichomanes Kraussii Hook. & Grev.
3 Guatteria ~~salicifolia D.Sm.~~ rigidipes Fries type
4 Senecio Hoffmannii Klatt
✓ 5 Eupatorium elatum Steetz
6 Jacobinia macrantha (Oerst.) Bentr. & Hook.
7
E
E Tillandsia chontalensis Baker
256 0

256 1 Eupatorium platyphyllum R.&b.
2 Bochmeria ramiflora var. cuspidata Wedd. ~~subnudifolia Wedd.~~
3 Iresine celosia L.
4 Iresine frutescens Moq.
5 Verbesina turbacensis H.B.K.
6 Eupatorium Thieleanum Klatt
7 Brassia gireondriana Rchb. f. & Warsc.
8 Encidium Isthmii Schltr.
~~Smilax panamensis Morong~~
9 Cordia alliodora (R. & P.) Cham.
257 0 Ipomoea sp. aff trichocarpa Ell. Perhaps new.
1 Jussiaea peruviana L.
2 Gilibertia sp. gonatopoda B. & m. det. A.C. Smith
3 Aphelandra Sinclairiana Nees
4 Blechum ~~pyramidatum~~ costaricense Oerst. ~~Lemaire n. sp. type~~
5 Croton glabellus L.
6 Justicia ~~glabra (Oerst.) Benth. & Hook.~~ Oerstedii Lepaire
7 Leptochilus cladorrhizans (Sprang.) Maxon
8
9
258 0 Anthurium trinerve Miq.
1 Crotalaria guatemalensis Benth.
2 Conostegia ~~laevigata Cogn.~~ xalapensis (Bompl.) Don
3 Smilax panamensis Morong
4 Chaetoptelea mexicana Liebm.
5 Chrysochlamys psychotriaefolia Hemsl.
6 Smilax panamensis Morong
7 Serjania mexicana Willd.
8 Solanum Donnell-Smithii Const.
9 Guatteria ~~n. sp.~~ recurvisepala Fries n. sp.
259 0 Hedyosmum callosо-serratum Oerst.

259 1 Besleria aculifolia Benth.
2 Vanilla Pfaviana Rchb-f.
3 Sarcorhachis anomala Trel.
4 Clusia odorata Seem.
5 Sloanea meianthera Lo-Sm.?
6 Alchornea costaricensis Pax+Hoffm.?
7 Dryopteris concinna (Willd.) Kuntze
8 Marattium ~~sebaldianum Christ~~ intermedium Liebm. Royen n.sp. Type
9 Phenax hirtus (Sw.) Wedd.
260 0 Trema caneseens Blume
1 Allophyllus psilospermus Radlk.
2 Tradescantia cumanensis Kunth
3 Croton draco var. hibiscifornis Muell. Arg.
4 Conostegia sp.
5 Nectandra glabrescens Benth.
6 Blechnum unilaterale Sw.
7 Trichomanes pinnatum Hedw.
8 Gnaphalium attenuatum DC.
9 Mollinedia ~~Pinchotiana Pesk~~ discrepans Morton.
261 0 Alchornea costaricensis Pax+Hoffm.?
1 Piper opinatum Trel. n.sp. type
2 Piper candelarianum C.DC.
3 Symphonia globifera L.f.
4 Trixis radialis (L.) Kuntze
5 Mandevilla hirsuta (A.Rich.) K.Sch.
~~Nectandra glabrescens Benth.~~
6 Cassia bacillaris L.
7 Passiflora vitifolia HBK.
8 Struthanthus polystachya (R.+P.) Blume?
9 Hyptis obtusiflora Presl
262 0 Ficus costaricensis Rose

2621
2
3 Conostegia bijibbosa ~~DC~~ Cogn.
4 Pipra hians Trel. n. sp. type
5 Pipra pseudofimbriculatum Trel.
6 Anthurium Bakeri Hook.
7
8 Mollinedia ~~Pinchutiana Perk.~~ discrepans Morton
9 Alternanthera lagunoides Standl.
2630 Hydrangea Skutchii Morton
1 Peperomia Alexandri Trel. n. sp. type
2 Asplenium formosum Willd.
3
4 Nectandra panamensis Mez. Nitida Mez.
5 Eleusine indica (L.) Gaertn.
6 Dioscorea convolvulacea subsp.
7 Marginariopsis Wiesbaurii (Sod.) C. Chr. Rare. esurientium Uline
8 Dioscorea borealis Morton n. sp. type
9 Elaphoglossum sp.
2640 Psychotria hebeclada DC.
1 Lantana camara L.
2 Cornutia grandifolia C. & S.
3 Kyllinga odorata Vahl
4 Cyperus diffusus Vahl
5 Cyperus caracasanus Kunth
6
7 ~~56~~ Setaria geniculata (Lam.) Beauv.
8 Sporobolus Poiretii (R. & S.) Hitchc.
9 Saracha ~~Rothii~~ (Poir.) ~~Hunter~~ procumbens R. & P.
2650 Nephrolepis pectinata (Willd.) Schott

not rec'd
not rec'd
Trel.
P. hians
P. pseudofimbriculatum
Anthurium
not rec'd
not rec'd
Peperomia
?
Asplenium
not rec'd
Nectandra
Eleusine
Dioscorea
Marginariopsis
Dioscorea
Elaphoglossum
Psychotria
Lantana
Cornutia
Kyllinga
Cyperus
Cyperus
Setaria
Sporobolus
Saracha
Nephrolepis

2651 Saurauia costaricensis W. Sm.
2 Guzmannia Roezli (E. Mor.) Mez. note N. Amer.
3
4 Burmeistera cyclostigmata W. Sm.
5 Cassia caudata Standl. *
6 Elaphoglossum sp.
7 Clibadium anceps Greenm.
8 ~~Belotia macrantha Sprague exactor.~~ Campbellii Sprague *
9 Chiococca alba (L.) Hitchc.
2660 Ardisia Skutchii Morton, n. sp. type
1 Calathea insignis Peters
2 Pescatoria cerina Rchb. f.
3 Polypodium serpentinum Christ
4 Monstera obliqua (Miq.) Walp.
5 Guarea bullata Radlk. First flowering collection
6 Frantzia Pittieri (Cogn.) Pitt.
7 Polypodium truncatulum Rosenst.
8 Nectandra rectinervia Meisn.?
9 Heliosis mexicana Liebm.
2670 ~~Arrabidaea sp. Perhaps nov.~~ Lundia corymbifera (Vahl) Sandw. det. Sandwith
1 Panicum maximum Jacq.
2 Cyperus incompletus (Jacq.) Link
3 Heliciteres guazumaefolia H.B.K.
4 Polygala paniculata L.
5 Peperomia rotata Trel. n. sp. type
6 Diastema exiguum Morton *
7 Callicostella pallida (Hornsch.) Jaeg.
8
9 Lomagramma patula (Sw.) Underw.
2680 Aegiphila panamensis Moldenke

268 1 Xanthosoma pilosum Koch
2 Psychotria pubescens Sw.
3
4 Xiphidium caeruleum Aubl.
5 Heliconia tortuosa Griggs
6 Asplenium serratum L.
7 Clidemia fraterna Gleason sp. nov. type
8 Calathea macrosepala Schum.
9 Lithachne pauciflora (Sw.) Beauv.
269 0 Costus Shutchii Morton, n. sp. type
1 Richardia scabra L.
2 Casearia sylvestris Sw. var. vel sp. nov.
3 Cestrum Endresii Francey ex char.
4 Rhacopilopsis trinitensis (C.M.) E.G. Britt & Wilc. *
5 Rhizogonium spiniforme (Hedw.) Bruch
6 Cissampelos grandifolia Tr. & Pl.
7 Psychotria Mortoniana Standl. n. sp. type
8 Polypodium fraxinifolium Jacq. emend. Lat.
9 Psychotria costaricensis Polak.
270 0 Clidemia dentata D. Don
1 Struthiopteris eusiformis (Liebm.) Broth.
2 Anthericum macrophyllum Baker ex char.
3 Sematophyllum loxense (Hook.) Mitt.
4
5 Gymnadropsis speciosa DC.
6 Erechtites hieracifolia (L.) Raf.
7 Cordia ferruginea (Lam.) R. & S. var.
8 Solanum synanthemum Sendtn.
9 Dioscorea convolvulacea subsp. eurientum Uline
270 0 Elaphoglossum piloselloides (Presl) Moore Sens. Lat.

20

271 1 Tetrapteris Schiedeana C. & S.
2 Psychotria dispersa Standl.
3 Pleuropetalum Spruceii (Hook f.) Standl.
4 Heliconia acuminata h. C. Rich.
5 Asplenium obtusifolium var. riparium (Liebm.)
6 ~~Lepianthes~~ Piper papillicarpum Trel. sp. nov. Type
7
8
9 Clusia rivitana Pittl.
272 0 Elaphoglossum sp.
1 Hasseltia floribunda HBK.
2 Perrottetia longistylis Rose vel affs.
3 Cissus rhombifolia Vahl
4 Chaptalia nutans (L.) Polak.
5 Blepharodon mucronatum (Schl.) Decne.
6 Pavonia rosea C. & S.
7 Inga spectabilis Willd.
8 Solanum ~~acuminatissimum~~ ciliatum Lam. Jacq.
9 Paliconrea costaricensis Benth.
273 0 Utricularia Endresii Rchb. f.
1 Rynchospora marisculus Nees
2 Rynchospora robusta Boeckl.? small form.
3 Clibadium surinamense L.
4 Panicum parvifolium Lam.
5 Scleria microcarpa Nees
6 Cyperus luzulae (L.) Retz.
7 Heliotropium ~~sp.~~ d'antillarum var. dist. Gtn. lagoense (Kunth) Gürke
8 Monophlegma trinervium (V. Tm.) Piper ~~Costaricty.~~
9 Schistocarpha oppositifolia (Kunth) Rydb.
274 0 Piper anisophyllum var. granulatum Trel. n. var. Type

274 1 Psychotria macrophylla R. + P.
2 Asplenium alatum H. + B.
3 Chamaedorea pacaya Oerst.
4 Psychotria pubescens Sw.
5 Anoectangium euchloron (Schw.) Mitt.
6 Dorygopteris palmata (Willd.) J. Sm.
7 Achimenes candida Lindl.* First collection since the type.
8 Gouania lupuloides (L.) Urban
9 Verbena littoralis H. B. K.
275 0 Dorstenia contrajerva L.
1 Erechtites valerianaefolia (Wolf) DC.
2 Malaxis Parthoni Morren
3 Polypodium anetioides Christ
4
5 Mitracarpus hirtus (L.) DC.
6 Mucuna Holtoni (Htze) Hutchinson
7 Machaerium ~~confusum Morton sp. nov. typ~~ biovulatum Micheli
8 Banisteria ~~Hyp? Fruits rotted~~ sbovata Small.
9 Borreria laevis (Lam.) Griseb.
276 0 Polypodium ~~peracrassum Baker et aff.~~ enterosoroides Christ
1 Mittenothamnium diminutivum (Hpe) E. G. Britt.
2 Pleiostachya pruinosa (Regel) Schum.
3 Ornithocephalus Tonduzii Schltr.
4 Syrrhopodon Bernoullii C. M.*
5 Epidendrum paniculatum Ruiz
6 Dicranopteris pectinata (Willd.) Underw.
7 Leiphamos lutea Morton n. sp. type
8 ~~Buxaceae n. sp.~~ Cymbocarpa refracta Miers
9 ~~Boerhaavia tenella Burtt et aff.~~ Dictyostega orobanchioides (Hook.) Miers
277 0 Lophidium elegans (Vahl) Presl

2771 Catopsis apicroides (C. & S.) Baker
2 Rhipidopteris peltata var. foeniculacea (HBK.)
3 L. Phyla scaberrima (A. L. Juss.) Moldenke
~~capitata replaced HBK~~
4 Borreria laevis (Lam) Griseb.
5 Costus formosus Maas n. sp. type
6 Lecythis Obrachyodus (Kunze) Kte
~~Rhipidopteris peltata var foeniculacea (HBK.)~~
7 Epidendrum paniculatum R. & P.
8 Calathea violacea (Rosc.) Lindl.
9

2780 Cyperus sp.
1 Dryopteris nigrovenia (Christ) C. Chr.
2 Psychotria dispersa Standl.
3 Vincetoxicum viridiflorum (Mey.)
4 Jussiaea foliobracteata Munz ined.
~~peruviana L. obt~~
5 Arthrostemma macrodesmum Gleason
6 Cassia Valerioi (R. & R.) Morton. Second collection known.
7 Petastoma patelliferum Miers
8 Leandra dichotoma (Don) Cogn.
9 Solanum trizygum subsp. chiriquianum Bitt.* ined.

2790 Capsicum macrophyllum (HBK.) Standl.
1 Comparoneura excelsa A. C. Smith n. sp. type
2 Eryngium foetidum L.
3 Scoparia dulcis L.
4 Cosmibuena ovalis Standl.
5 Coussarea paniculata (Vahl) Standl.
6 Elaphoglossum sp.
7 Cononopha peruviana var. rostrata (Hassk.) Mez.* Genus new to continental North America.
8 Gilibertia arborea (L.) Marck.
9 Miconia sylvestris Gleason sp nov type

2800 Fissidens Garberi Lesq. & James

280 1 Hymenophyllum polyanthos Sw.
2 Cavendishia Skutchii A.C. Smith, n.sp. type
3 Clidemia ramiflora Gleason sp. nov. type
4 Gynandropsis pulcherrima Standl. var.
5 Posoqueria latifolia (Rudge) R.&S.
6 Eugenia sp. Skutchii Hunter + Standl type
7 Epidendrum pygmaeum Hook.
8 Tetrapteris sp. reticulata Small* Fruits needed.
9 Cassia spectabilis DC.
281 0 Euphorbia hirta L.
1 Mecardonia procumbens (Mill.) Small
2 Cissus cardiophylla Standl.
3 Ocotea pedalifolia Mez
4 Hecistopteris pumila (Spreng.) J. Sm.
5 Polypodium Alfarii H. Sm.
6 Miconia dorsiloba Gleason sp. nov. type
7 Oleandra costaricensis Maxon
8 Polypodium duale Maxon
9*
282 0 Mandevilla hirsuta (Rich.) Schum.
1 Ocotea cuneata Mez ?
2 Campyloneurum porphyreodictyon (C.M.) Mitt.
3 Rhaphidorrhynchium Lindigii (Hpe.) Broth.
4 Polytrichum antillarum Rich.
5 Stelis sp. planipetala Ames, n. sp. (Tyke)
6 Polypodium blepharodes Maxon
7 Utricularia verapazensis Morong.
8 Cordia ferruginea (Lam.) R.&S. var.
9 Borreria oxynoides (Burm.) DC.
283 0 Polypodium subtile Kunze

2F3 1 Polypodium Hombergeyi Mazon *
2 Polypodium rosulatum Christ ex char.
3 Cissampelos grandifolia Tr. & Pl
Rondlist 4 Lepanthes confusa Agnes & Schw.
5 Maranta tonchat Aubl. det Idrobo
6 Rudgea Skutchii Standl. n-sp. type
7 Campelia Zanonia (L.) H.B.K.
8 Athyrocarpus persicariaefolius (DC.) Hemsl.
9 Drymonia fimbriata Morton, sp. nov. type
284 0 Polypodium sphenoides Kunze
Rondlist 1 Maxillaria variabilis Bateman.
2 Fumaria calvescens Schw.
3 Taxithelium planum (Brid.) Mitt.
4
5 Polytaenium lineatum (Sw.) J. Sm.
6 Piper generalense Trel. n. sp. type *
7 Zamia pseudoparasitica Yates ex char.
8 Psychotria uliginosa Sw.
9 Hypopterygium tamarisci (Sw.) Brid.
285 0 Palicourea macrosepala Krause
1 Peperomia defracta Trel. n. sp. type
2 Dichorisandra hexandra (Aubl.) Standl.
3 Begonia lignescens Morton, n. sp. type
4 Drymonia marmorata Hook.
5 ~~Cosmos caudatus H.B.K.~~
6 Cosmos caudatus H.B.K.
7 Hyptis capitata Jacq.
8 Hemidiodia ocymifolia (Willd.) Schum.
9 Kyllinga brevifolia Rottb.
286 0 Eleocharis retroflexa (Poir.) Urban

Do not list

286 1 Borreria ocymoides (Burm.) DC. var. ?
X2861 2 Hibiscus mutabilis L.
2 Capsicum ~~pisciferum Standl.~~ * ~~et var.~~ tetramerum Standl. & Morton, n. sp. type.
3 Urera elata (Sw.) Griseb.
4 Panicum boliviense Hack.
5 Piper obtusum sericeum Trel. n. sp. type
6 Hasseltia floribunda H.B.K.
7 Blakea gracilis longifolia Cogn.
8 Buettneria catalpaefolia Jacq.
9 Tetrapteris Schiedeana C. & S.
287 0 Monocardia violacea Pennell
1 Albizzia adinocephala (Ll.-Fm.) B. & R.
2 Polypodium blepharodes Maxon
3 Psychotria marginata Sw.

3 rel. acc 143067 made 1937
4 Hieronyma oblonga (Tul.) Muell. Arg. Genuine form, new to N. Amer.
5 Struthanthus costaricanus Standl. ?
6 Ipomoea ~~hederacea Jacq~~ hil (L.) Roth
7 Dioscorea trifida L. f.
8 Teramnus uncinatus (L.) Sw.
9 Cassia tora L.
288 0 Cassia stenocarpoides (Britt.) Morton
1 Melochia melissaefolia Benth.
2 Kolobochilus Razisea spicata Oerst. leiorachis Linden
3 Pseudoranthemum ~~alatum~~ carpidatum (Nees) Radlk.
4 Tagetes filifolia Lag.
5 Microthamnium minusculiflium C. M.
6 Miconia flaviflora var. emigrans Gl.
7 Trichomanes polypodioides L.
8 Syrrhopodon flavescens C. M.
9 Jaegeria hirta (Lag.) Less.
289 0 Ardisia Skutchii Morton

2.5.7.1 Alsophila crassifolia Werckle
✓ 2 Diplazium costaricanum C. Chr.
✓ 3 Commelina longicaulis Jacq.
✓ 4 Commelina elegans HBK.
✓ 5 Inga confusa Britt. & Rose
✓ 6 Calopogonium galactoides (HBK) Benth.
✓ 7 Dioclea guianensis Benth.
✓ 8 Salvia costaricensis Oerst.
✓ 9 Kohleria spicata (HBK.) Hanst.
2.9.0.0 Calliandra similis Sprague & Riley
✓ 1 Ruellia jussieuoides Schl.
✓ 2 Manettia stenophylla W. Fm.
✓ 3 Ficus costaricana (Liebm.) Miq.
✓ 4 Cyathula achyranthoides (HBK) Moq.
✓ 5 Mimosa invisa Mart.
✓ 6 Odontonema callistachyum (C.&S.) Kuntze ~~callistachyum~~ strictum (Nees) K.Sch.
✓ 7 Phyllanthus sp. aff. lathyroides HBK.
✓ 8 Microthamnium reptans (Sw.) Mitt.
✓ 9 Rhacopilum tomentosum (Sw.) Brid.
2.9.1.0 Stenochlaena latiuscula Maxon
✓ 1 Tinantia erecta (Jacq.) Schl. var.
✓ 2 Polypodium blandulum Christ
✓ 3 Adiantum concinnum HBK.
✓ 4 Triumfetta Josephina Polak.
✓ 5 Cyclanthera Tonduzii Cogn.
✓ 6 Maranta ~~arundinacea~~ tonchat Aubl. det Idrobo
✓ 7 Cyclodium crebrinervia Standl.
✓ 8 Hymenophyllum brevistipes Liebm.
✓ 9 Phytolacca rivinoides Kunth & Bouché
✓ 2.9.2.0 Piper nemoricola marginivillosum Trel. n. sp. type

2921 Thryopteris curta Christ. Previously known only from type collection.
2 Entodon Hampeanus C. M.
3 Tradescantia geniculata Jacq.
4 Rhacopilum tomentosum (Sw.) Brid.
5 Desmodium ~~distortum (Aubl.)~~ hirsutum M. & G.
6 Paronia paniculata Cav.
7 Castilleia communis Benth.
8 Habenaria monorrhiza Rchb. f.
9 Tournefortia hirsutissima L.
2930 Tovaria pendula R. & P.
1 Physalis angulata L.
2 ~~Kolobochilus leiorachis Lindau~~ Regisea spicata Oerst
3 Mnium rostratum Schrad.
4 Hyptis vilis Kuntze & Bonché
5 Tradescantia ~~cumanensis Kunth~~ multiflora Sw. Fl. Ind. Occ. ?
6 Loasa triphyla Juss.
7 Bidens squarrosa H.B.K.
8 Piper pustulicaule Trel. n. sp. type
9 Salvia occidentalis Sw.
2940 Monochaetum rivulare Naud.
1 Pterothallis aurita Schlecht. type
2 Zornia diphylla (L.) Pers.
3 Hyptis lantanaefolia Poit.
4 Hyptis brachiata Briq.
5 Desmodium cajanifolia (H.B.K.) Kuntze
6 Aeschynomene brasiliana (Poir.) DC.
7 Eleocharis ~~Pittieri Boeckl.~~ Selowiana Kunth
8 Hyptis suaveolens Poit.
9 Bidens cynapiifolia H.B.K.
2950 Callicostella pallida (Hornsch.) Jaeg.

295 1 Clitoria rubiginosa Juss.
2 Dicranella subinclinata Lor.
3 Banisteria obovata Small
4 Polypodium crassifolium L.
5 Aeschynomene americana L.
6 Crotalaria guatemalensis Benth. = vitellina f. Senn
7 Pithecellobium longifolium (H.+B.) Standl.
8 Dryopteris illudens Maxon & Morton
9 Diplazium velutinum Maxon & Morton, sp. nov.
296 0
1 Olfersia costaricensis Maxon
2 Carludovica leucocarpa Standl.?
3 Clusia flava Tr. & Pl. New to N. Amer.
4 Cyathea divergens Kunze
5 Rhus juglandifolia H.B.K.
6 Asplenium serra L. f.
7 Piper reticuliculatum Trel. n. sp. type
8 Chelonanthus acutangulus (R. & P.) Gilg
9 Vittaria minima (Baker) Benedict
297 0 Elaphoglossum proliferans Maxon & Morton n. sp. type
1 Piper deductum Trel. n. sp. type
2 Leptochilus Bradeorum Ros.
3 Sabicea costaricensis Wernh.
4 Phyllonoma ruscifolia Willd.
5 Hypolepis rigescens (Kunze) Fée
6 Maxillaria variabilis Bateman
7 Cissampelos grandifolia Tr. & Pl.
8 Asplenium falcinellum Maxon
9 Solanum ~~sp.~~ accrescens Standl. & Morton, n. sp. type
298 0 Cassia n. sp.

2981 Solanum grossularia Britt.
2 Ipomoea sp. nov.
3 Callisia monandra (Sw.) Schult.
4 Ipomoea sp. nov.
5 Hyptis mutabilis (Rich.) Briq. urticoides Kunth
6 Cleome pilosa Bentth.
7 Solanum incomptum Bitt.
8 Begonia involucrata Liebm.
9 Conostegia Pittieri Cogn.
2990 Phaseolus formosus HBK. new to Costa Rica
1 Cavendishia confertiflora A.C. Sm. n. sp. type
2 Drymaria cordata Willd.
3 Piper subdecurrens Trel. n. sp. type
4 Asplenium praemorsum Sw.
5 Sisyrinchium micranthum Cav.
6 Hemichlaena fruticosa Benth. new to Costa Rica?
7 Baccharis splendens Heering
8 Centrosema pubescens Benth.
9 Vigna vexillata (L.) Rich.
3000 Machaerium Seemannii Benth.
1 Octoblepharum albidum Hedw.
2
3 Tradescantia commelinoides R.&S.
4 ~~Stenandrium~~ Aphelandra Tonduzii Lemaire n. sp. (Leonard mss.) type.
5 Phaseolus leucanthus Piper new to Costa Rica
6 Dorstenia choconiana Wats.
7 Besleria ~~chiapensis Brandeg.~~ laxiflora Benth.
8 Begonia squamosa C DC.
9 Microthamnium minuseulifolium C.M.
3010 Athyrium Bradeorum (Ros.) n. comb. [illegible]

30 1 ✓ 1 Hyptis pectinata (L.) Poit.
2 Justicia sp. (Leonard mss.) Skutchii Leonard n. sp. type.
✓ 3 Psychotria macrophylla R. & P.
✓ ✓ 4 Nectandra reticulata (R. & P.) Mez
5 Polypodium Hookersleyi Mexon
✓ 6 Miconia sp. prasina (Sw.) DC.
✓ 7 ~~Eupatorium sp.~~ Mikania cupatorioides Blake
8 Polybotrya osmundacea H. & B. sens lat.
✓ 9 Tetrapteris discolor (Mey.) DC.
✓ 302 0 Sagittaria sp. nov. ined. Schweinfurth type
1 Dioscorea lepida Morton
✓ 2 Peperomia tenticola Trel.
✓ 3 Lepidopilum cubense Sull.
4
✓ 5 Topobea Hurandiana Cogn.
6 Sida savannarum Schum.
✓ 7 Pseudelephantopus spicatus (Juss.) Rohr.
8 Triumfetta lappula L.
✓ 9 Elephantopus hyponalacus Blake
303 0 Asclepias curassavica L.
1 Dennstaedtia adiantoides (H. & B.) Moore
2 Alloplectus ~~elegantissimus Hoehn, n. sp. type~~ tetragonus (Cent.) Hamit.
3 Spathiphyllum Friedrichsthalii Schott
4 ~~Loxsomia villosa C. & S.~~ Stellaria crata Willd.
5
✓ 6 Dialyanthera otoba (H. & B.) Warb.
7
8 Asplenium bisectum Sw.
✓ 9 Cephaelis axillaris Sw.
✓ 304 0 Symbolanthus pulcherrimus Gilg

304 1 Vittaria eupatorioides Blake n. sp. type
~~Eupatorium sp.~~ Comp
2 Trichomanes rigidum Sw. 7
3 Rhipidopteris flabellata (H.&B.) Fée 7
4 Peperomia lati-ovata Trel. Pip
5 Eupatorium ~~sp~~ vulcanicum Benth. Comp
6
7 Peperomia sphagnicola Trel. n. sp. type
8 Csilogramme congesta (Christ) Maxon 7
9 Elaphoglossis ~~Pittieri Brackel~~ Sellowiana Kunth
305 10 Paesia anfractuosa (Christ) C. Chr. 7
1 Metzlerella longiseta (Hook.) Par
2 Sphagnum meridense (Hampe) C. M.
3 Pogonatum robustum M^tt.
4 Polypodium asplenifolium L. (Anamow form) 7
5 Coussarea paniculata (Vahl) Standl.
6 Asplenium radicans L. var. cyrtopteron (Kunze)
7 Lycopodium complanatum L. var.
8 Cupania fulvida Tr. & Pl.?
9 Cuphea utriculosa Koehne
306 10 Polypodium fallax Cham. & Schl. (syn. P. margaritiferum Christ)
1 Hedwigia Kunthii Sm. Hil.
2 Nectandra sanguinea Rottb.
3 Jacquemontia ~~reniformis Choisy~~ ciliata Sandw.
4 Hyptis recurvata Poit.
5 Panicum Rudgei R. & S.
6 Hyptis pulegioides Pohl
7 Marsypianthes Chamaedrys (Vahl) Kuntze
8 Eragrostis mayspurensis (H.B.K.) Steud.
9 Andropogon brevifolius Sw.
307 10 Chelonanthus alatus (Aubl.) Standl.

307 1 Crotalaria ~~pterocaulon Desv.~~ pilosa var. Shuttleii Senn, var. nov. Type
2 Crotalaria sagittalis L.
3 Orthoclada laxa (Rich.) Beauv.
4 Calopogonium mucunoides Desv.
5 Pipa longipetiolatum Trel.
6 Anthurium obtusilobum Schott.
7 Trichomanes ludovicianum Rosenst.
8 Trichomanes Galeottii Fourn. (A single immature plant.)
9 Trichomanes ~~Antrum Parker~~ kuckheimii Christ det. Krauss

308 0 Xylosma intermedia (Tr. & Pl.) Griseb.
1 Blechnum ~~laxiflorum Jenn.~~ Costaricense Christ
2 Tetrapteris Schiedeana C. & S.
3 Bretteneria cataloaefolia Jacq.
4 Leptochilus serratifolius (Mert. & C. Chr.) new to N. Amer.
5 Mollinedia ~~Pinctoriana Perk.~~ discrepans Morton n. sp. type
6 Phaseolus pilosus H.B.K. new to Costa Rica.
7 Centrosema pubescens Benth.
8 Scutellaria glabra Leonard
9 Sanicula liberta C. & S.

309 0 Veliptera ~~Eborenbergii Lindau~~ Shuttleii Leonard type
1 Chusquea virgata Hack.
2 Trichilia oaxacana Blake? new to Costa Rica.
3 Plantago hirtella H.B.K.
4 Lantana hispida H.B.K.
5 Senetophyllum loxense (Hook.) Mitt.
6 Desmodium campyloclados Hemsl.
7 Croton draco var. rhombifolius Muell. Arg.
8 Citharexylum Donnell-Smithii greenm.
9 Abutilon discuum Sch.

310 0 Tournefortia glabra L.

3101 Leandra ~~crotalicaulis Cogn.~~ melanoderma (Naud.) Cogn.
2 Lamoureuxia lanceolata Benth.
3 Stenodia peduncularis Benth.
4 Piper pseudolanceaefolium Trel.
5 Pitcairnia heterophylla (Lindl.) Beer
6 Selaginella kunzeana A. Br. det. alston
7 Serjania rhombea Radlk.
8 Arundinella hoppeana Nees
9 Addobotrys adscendens (Sw.) Triana
3110 Hibiscus bifurcatus Cav.
1 Piper sublineatum Trel
2 Cephaelis Pittieri Krause
3 Dryopteris consta Maxon & Morton n. sp. type
4 Miconia Killipii Gl. First record from N. Amer.
5 Passiflora biflora Lam.
6 Machaerium biovulatum Micheli
3117 Persea ~~caerulea Mez~~ Skutchii Allen
8 Virola sebifera Aubl.
9 Centropogon palmanus (W. & M.) Wimmer
3120 Cyperus niger R. & P.
1 Sibthorpia pichinchensis ~~H.B.K.~~ Hook. f.
2 Hyptis capitata Jacq.
3 Solanum evolvuli folium Greenm.
4 Alonia microcarpa (Benth.) Rob.
5 Phyllanthus lathyroides H.B.K.
6 Stelis Skutchii Ames, n. sp. (Type)
7 Asplenium auritum Sw. var. angustare Rob.
8 Eupatorium ~~sp.~~
9 Berberis triflora (Lindl.) Hemsl.
3130 Palicourea macrosepala Krause

3131 Siparuna ~~parallelonera Perk.~~ patelliformis Perkins
3132 Rhipidopteris peltata (Sw.) Schott
3133 Asplenium confusitum Underw. & Maxon
3134 Plenothallis ruscifolia R. Br.
Trichomanes radicans var. kunzeanum (Hook.) Hieron.
3136 Hoffmannia longipetiolata Polak.?
3137 Psychotria graciliflora Benth.
3138 Ichnanthus nemorosus (Sw.) Doell.
3139 Polypodium splendens Kunze

3140 Asplenium radicans L.
3141 Clidemia costaricensis Cogn. + Gl.
2 Piper pseudolanceaefolium Trel.
3 Pilea parietaria (L.) Blume
4 Centradenia inaequilateralis G. Don
5 Isachne arundinacea (Sw.) Griseb.
6 Begonia estrellensis C. DC.
7 Oxalis sp.
8 Lasiacis divaricata (L.) Hitchc.
9 Strutthanthus marginatus (Desr.) Blume
3150 Sanicula liberta C. + S.
1 Sarcorhachis naranjoana Trel.
2 Palicourea lasiorrhachis Oerst.
3 Gonzalaguinia panamensis (Cav.) Schum.
4 Clidemia Mortoniana Standl. n. sp. type
5 Eupatorium Billbergianum Bentt.
" " " "
To Standley adj. 5½ 6 Polypodium lycopodioides var. salicinum (Wikstr.)
7 Neea Pittieri Standl.
8 Guarea cf. Pittieri Cogn.
9 Solanum grossularia Britt.
3160 Habracanthus sylvaticus Nees
1 Conostegia sp.
2 Rhynchospora Schiedeana Kunth
3
4 Lobelia urticaefolia Wimm.
5 Metastelma filisepalum Standl.
6 Solanum trizygum Britt.
7 Solanum ciliatum Lam.
8 Tropaeolum binaculatum Kl.
9 Cyclanthera Langaei Cogn.
3170 Plewrothallis costaricensis Rolfe

✓ 3171 Macdevallia nidifica Rchb.-f.
✓ 2 Macromitrium Tonduzii Ren. & Card.
✓ 3 Hymenophyllum Lehmannii Hieron.
✓ 4 Siparuna gricei Berk.?
✓ 5 Cordia ferruginea R.&P.
✓ 6 Mikania cristata Rob.
✓ 7 Solanum phaseoloides Poepp.
✓ 8 Alternanthera microcephala (Moq.) Standl.
✓ 9 Capsicum ~~sp.?~~ macranthum Standl. & Morton
✓ 3180 Peperomia tenellaeformis Trel.
✓ 1 Microthamnium Lehmannii Besch.
✓ 2 Mostly Hepaticae mixed with Microthamnium reptans (Sw.) Mitt.
✓ 3 Sematophyllum boxense (Hook.) Mitt.
✓ 4 " " " "
✓ 5 Thamniopsis pendula (Hook.) Fleisch.
✓ 6 Pilea auriculata Liebm.
✓ 7 Ichnanthus nemorosus (Sw.) Doell.
✓ 8 Saracha procumbens (Cav.) R.&P.
✓ 9 Elaphoglossum eximium (Mett.) Christ
✓ 3190 Selaginella porphyrospora A. Br.
✓ 1 Peperomia varablancana Trel. n. sp. type
✓ 2 Viola stipularis Sw.
✓ 3 Alchemilla sibbaldiifolia var. Tonduzii (Hamm.) Perry
✓ 4 Cuphea carthaginensis (Jacq.) Macbr.
✓ 5 Cardamine flaccida C.&S.
✓ 6 Hydrocotyle umbellata L.
✓ 7 " leucocephala C.&S.
8 Micania melanotricha (Triana) Gl.
✓ 9 Rubus ~~Alexandri Morton n. sp. type~~ abundus Rydb.
✓ 10 Rubus ~~Shutchii Morton, n. sp. type~~ glaucus Benth.
✓ 3200 Cephaelis elata Sw.

✓ 3201 Microthamnium Langsdorffii (Hook.) Dittt.
✓ 2 Raonia triflora Oerst.
✓ 3 Asplenium plumbeum Christ?
✓ 4 Eupatorium Pittieri Klatt
✓ 5 Piper vara-blancanum Trel. n. sp. type
✓ 6 Rondeletia buddleoides Benth.
✓ 7 Hypericum uliginosum H.B.K.
✓ 8 Torenia thouarsii (C.&S.) Kuntze
✓ 9 Sisyrinchium micranthum Cav.
✓ 3210 Borreria ocimoides (Burm.) DC.
✓ 1 Utricularia Endresii Rchb.
✓ 2 Polypodium dulce Maxon
✓ 3 Vittaria lineata (L.) J.E. Sm.
✓ 4 Hoffmannia leucocarpa Standl.
✓ 5 Columnea microcalyx Hanst.
✓ 6 Masdevallia Rolfeana Kraenzl.
7 Hedyosmum scaberrimum Standl.
8 Miconia theaezans (Bonpl.) Cogn.
9 " " " "
✓ 3220 Polygonum punctatum Ell.
✓ 1 Eupatorium anisochromum Klatt
✓ 2 Solanum hispidum Pers.
✓ 3 Guettarda crispiflora Vahl
✓ 4 Conostegia rhodopetala D. Sm.
✓ 5 Fuchsia minutiflora Hemsl.
✓ 6 Epidendrum exasperatum Rchb. f.
✓ 7 Eupatorium arthroden Rob.
✓ 8 Burmeistera Pittieri Wimmer
✓ 9 Polypodium induens Maxon
3230

323 1 Cavendishia melastomoides (Kl.) Hemsl.
2 Lycopodium elegantulum Maxon n. sp. type.
3 Nertera depressa Banks
4 Cavendishia costaricensis Hoer.
5 Stelis sp. Skutchii Ames
6 Polystachya sp. nov.?
7 Rhaptidorrhynchium Lindigii (Hampe) Brotth.
8 Hookeriopsis variabilis (Hornsch.) Jaeg.
9 Galinsoga urticaefolia (HBK.) Benth. (fruit).
3240 Constepia sp.
1 Psittacanthus americanus (L.) Mart.
2 Eupatorium parasiticum Klatt (ex char.).
3 Merinthopodium neuranthum (Hemsl.) D. Sm.
4 Ornithidium fulgens Rchb. f.
5 Disterigma Humboldtii (Kl.) Nied.
6 Telipogon sp. apparently nov. Ames n. sp. type
7 Gaultheria gracilis Small
8 Ranunculus flagelliformis Smith
9 Ranunculus repens L.
3250 Vismia guianensis (Aubl.) Pers.
1 Ornithidium fulgens Rchb. f.
2 Cissus Martiniana Woods. & Lech.
3 Myrcia costaricensis Berg
3253 In Telipogon Endresianus Kraenzl.
4 Capsicum macrophyllum (HBK.) Standl.
5 Aegiphila aculeifera Moldenke
6 Solanum sp. Edwardsii Standl.
7 Browallia americana L.
8
9 Epidendrum Lankesteri Ames
3260 Clibadium anceps Greenm.

✓ 326 1 Xerococcus congestus Oerst.
✓ 2 Hemitelia arachnoidea (Underw.) Maxon
✓ 3 Scutellaria costaricana Wendl.
✓ 4 Hydrocotyle mexicana C. & R.
✓ 5 Epidendrum platystigma Rchb. f.
✓ ✓ 6 Malaxis ~~sp.~~ arborea var. palmana (Ritt. & Schery)
✓ 7 Aphelandra repanda Nees
✓ 8 Trichomanes ~~fuerciifolium Hook. & Grev.~~ montanum Hook.
✓ 9 Psychotria costaricensis Polak.
327 0 Miconia sp.
✓ 1 Besleria princeps Hanst.
✓ 2 Trichomanes capillaceum L.
✓ 3 Miconia incurva Gleason n. sp. type
✓ 4 Dryopteris atroprisca C. Chr.
✓ 5 Diplazium urticaefolium Christ
✓ 6 Dryopteris equitans (Christ) C. Chr.
7 Solanum (Lyciantes) costaricense Morton
✓ 8 Dryopteris equitans (Christ) C. Chr.
9 Hedyosmum calloso-serratum Oerst.
✓ 3280 Solanum ~~triste Jacq.~~ ? roblense Bitt.
1 Miconia theezans (Bompl.) Cogn.
✓ 2 Psychotria sylvivaga Standl. ?
✓ 3 Bromeliera Pittieri Wimmer
✓ 4 Centronia phlomoides Triana
✓ 5 Asplenium bissectum Sw.
✓ 6 Solanum ~~nudum H.B.K.~~ parcebarbatum Bitt.
✓ 7 Clusia palmana Standl. ex char.
✓ 8 Cissus biformifolia Standl.
✓ 9 Oreopanax Oerstedianum March.
✓ 3290 Pleurothallis lanceola Spr. nov. ? C. Amm.

329 1 Miconia costaricensis Cogn.
✓ 2 Polytrichum antillarum Rich.
✓ 3 Rhaphidorrhynchium Lindigii (Hampe) Brotherus
✓ 4 Polytrichum antillarum Rich.
✓ 5 Peperomia macrantha (Vent.) Bentth.
6 Ardisia palmana Donn. Sm.
✓ 7 Lippia costaricensis Moldenke
✓ 8 Polypodium aciculare Kunze
✓ 9 Weinmannia pinnata L.
✓ 330 0 Palicourea subrubra Polak.
1 Clidemia costaricensis Cogn. & Gl.
✓ 2 Prunus annularis Koehne
✓ 3 Spilanthes americana f. parvifolia (Benth.) C. H. Moore
✓ 4 Manettia flexilis Brandeg.
✓ 5 Monnina sylvatica S. & C. det. Blake
✓ 6 Epidendrum exasperatum Rchb. f.
✓ 7 Saurauia Pittieri D. Sm.
✓ 8 Pleurothallis cardiothallis Rchb. f.
✓ 9 Jacobinia aurea Hensl.
✓ 331 0 Peperomia substriata C. DC.
✓ 1 Solanum (Lycianthes) multiflorum (Bitt.)
✓ 2 Eupatorium Pittieri Klatt
✓ 3 Capsicum ~~macrophyllum (H. Bk.) Standl.~~ stenophyllum Morton & Standl.
4 Convolvulus sp.
✓ 5 Inga ~~bracteolata Britton, n. sp. typo~~ latipes Pittier 1st flowering material
6 Guatteria oliviformis D. Sm.
✓ 7 Cavendishia Endresii Hemsl.
✓ 8 Blakea sp.
✓ 9 Leandra melanodesma (Naud.) Cogn.
✓ 332 0 Alibertia leiocarpa var. strigosa Blake

332 1 Lycopodium clavatum L. var.
2 Cochlidium rostratum (Hook.) Maxon
3 Epidendrum anoglossum Schltr.
4 Schlegelia Ramirezii var. macrandra Sandw. var. nov.
5 Spathacanthus Hoffmannii Lindau
6 Raziseа spicata Oerst.
7 Xylobium elongatum (Lindl.) Hemsl.
8 Camaridium dendrobioides Schltr.
9 Razisea spicata Oerst.
333 0 Psychotria sarapiquensis Standl. n. sp. type
1 Didymochlaena truncatula (Sw.) J. Sm.
2 Meliosma panamensis Standl. new to Costa Rica.
3 Inga sp. aff. confusa B. & R.
4 Polypodium fraxinifolium Jacq.
5 Capsicum ~~n. sp.~~? maculatum Standl. & Morton, n. sp. type
6 Tradescantia commelinoides R. & S.
7 Solanum (Lycianthes) costaricense Morton n. sp. type
8 Pleuropetalum Sprucei (Hook. f.) Standl.
9 Hydrangea epiphytica Morton, n sp. type
334 0 Marcgravia rectiflora Tr. & Pl.
1 Muhlenbergia tamnifolia (HBK.) Meisn. var.
2 Hydrangea epiphytica Morton, sp. nov. ~~type~~
3 Solanum Donnell-Smithii Coult.
4 Cleome pilosa var.
5 Drymaria villosa C & S.
6 Heliocarpus ~~radiei~~ popayanensis HBK der Kay
7 Stemodia pedunculariis Benth.
8 Ilex lamprophylla Standl.
9 Phenax rugosus (Poir.) Wedd.
335 0 Monochaetum rivulare Naud.

✓ 3335	1	Marked leucantha HBK. fm.	Sax.
	✓ 2	Bidens squarrosa HBK.	
	✓ 3	Maxillaria microphyton Schlta.	Orch
	✓ 4	Canaridium Bicolleyi Schlta.	Orch
	✓ 5	Markea ~~sp.?~~ venosa Standl. & Morton, n. sp. Type	
	✓ 6	Prunella vulgaris L.	Prunell
	✓ 7	Fuchsia arborescens Sims det. Standl.	
	✓ 8	Buddleia americana L.	
	✓ 9	Rondeletia Torresii Standl.	Rond.
✓ 3360		~~Lycopodium scandens Hunter, sp. nov. type~~ Alopecurus multiflorus (Cavent.) Hamt.	Gram
	✓ 1	Eupatorium rexangulare (Klatt.) Rob.	
	✓ 2	Gilibertia arborea (L.) March. van.	Cinch
	✓ 3	Columnea Warscewicziana Kl. & Hamt.	Gesn
	4	Molinedia Pinchotiana Perk.	Hydrang
	✓ 5	Piper carilloanum C. DC.	Piper
	✓ 6	Struthiopteris Werckleana (Christ) Broadh.	?
	✓ 7	Polypodium falcideum Kuhn	?
	✓ 8	Loasa triphylla Juss.	Loas
	✓ 9	Peperomia muscitecla Trel. n. sp. Type	Piper
✓ 3370		Epidendrum mirabile Ames & Schweinf.	Orch
	✓ 1	Selaginella estrellensis Hieron.	?
	✓ 2	Burmeistera aurobarbata (Wimmer) Wimmer	Lob
	✓ 3	Cavendishia capitulata Hemsl. fm.	Ericac
	✓ 4	Triumfetta semitriloba Jacq.	Tiliac
	✓ 5	Selaginella porphyropoma A. Br.	?
	✓ 6	Polypodium pungermannioides Kl.	Polypod
	✓ 7	Epidendrum muscicola Schlta.	Orch
	✓ 8	Stelis pardipes Rchb. f.	Orch
	✓ 9	Polypodium fucoides Christ	?
✓ 3380		Polypodium ursipes Moritz	Polypod

3376 x ~~Rob~~ Calycophyllum candidissimum (Vahl) DC.

3381 Gaiodendron podocense Ld. Sm.

3 Polypodium leucosticton Kunze var.

4 Sapium pachystachys Schum. & Pitt.

5 Pleurothallis monstrabile Ames

6 Oncidium bracteatum Rchb. f.

7 Lozanella enantiophylla (D. Sm.) Killip & Morton

8 Phytolacca icosandra L.

9 " rivinoides Kunth & Bouché

3390 Rondoletia Cooperi Standl. ? ex char.

1 Miconia theaezans (Bonpl.) Cogn.

2 Drymonia rubra Morton

3 Hydrangea Oerstedii Briq.

4 Miconia cremadena Gleason, n. sp.

5 Cirsium pinnatisectum (Klatt) Petrak

6 Columnea lepidocaula Hanst.

7 Paspalum candidum (H. & B.) Kunth

8 Baccharis trinervis (Lam.) Pers.

9 Schistocarpha sp.

3400 Cissampelos fasciculata Benth.

1 Equisetum bogotense H. B. K.

2 Paliconrea n. sp.?

3 Hydrocotyle pusilla A. Rich.

4 Glockeria ventricosa Donn. Smith

5 Begonia alnifolia A. DC.

6 ~~Paullinia~~ Cupania grandiflora Morton

7 Campanea Oerstedii Kl.

8 Wanting

9 Epidendrum Laucheanum Rolfe ex Bonhof

3410 Satyria Warscewiczii Kl.

341 Camaridium nutantiflorum Schltr. (Orch.)
Centrosogon solanifolius Benth.
Blakea anomala D. Sm. (Mel.)
Begonia sp.
Conostegia pilterii Cogn. det. Wurdack (Mel.)
Sisyrinchium tinctorium H.B.K.
Miconia glaberrima (Schl.) Naud. (Mel.)
Cranichis diphylla Sw. (syn. C. guatemalensis Schltr.) (Orch.)
Epidendrum Endresii Rchb. f.
342 Piper nervo-excurrens Trel. n. sp. type. J. "E
Polypodium ~~sp. nov.~~ turrialbae Christ
" sp. nov.
Asplenium harpeodes Kunze
Dryopteris Hemsleyana (Baker) C. Chr.
Peperomia lateriflora Trel.
Dryopteris dentiulata (Sw.) Kuntze (small form)
Cheiroglossa palmata (L.) Presl
Missing
Brunellia
343 Guatteria oliviformis D. Sm. (Annon.)
Piper intermontanum Trel. type (Pip.)
Sambucus oreopola Donn. Sm.
Geranium mexicanum H.B.K.
Zinowiewia costaricensis Lundell ? (Celast.)
Missing
Sphyrospermum cordifolium Benth. (Lam.?)
Listrigyna Humboldtii (Kl.) Hdsn. (Eric.)
Peperomia medio-montis Trel. n. sp. type.
Psychotria pithecobia Standl. (Rubi.)
340 Senecio streptotharnnus Greenm. (Comp.)

344	1	Marantea subsessilis Benn. & m.	(Marantac.)
	2	Marantea costaricensis Gilg ad. de Rova	(?)
	3	Bactris Trinervis (Lam.) Pers.	(Palm.)
	4	Archibactris torquis Becke	"
	5	Gnaphalium roseum H+BK. ?	
	6	Vernonia canescens H+BK.	
	7	Smilax Engleriana Arpt	
	8	Justicia Valerii Leonard	(Acanth.)
	9	Ichnanthus pallens (Sw.) Munro	(Gram.)
345	0	Begonia glabra Aubl.	
	1	Columnea Warszewicziana (Kl.) Hanst.	
	2	Salvia alvajaca Oerst.	
	3	Elleanthus glaucophyllus Schltr.	(Orch.)
	4	Peperomia recepta Trel. n. sp. type.	
	5	Miconia breviseta Standl. det. Wurdack	(Melast.
	6	Eupatorium hymenophyllum Klatt	(Comp.
	7	Justicia ~~carthaginensis~~ Costaricana Leonard	(Acanth.)
	8	Columnea purpurata Hanst.	
	9	Polytaenium Dussianum Bened. aff.	
346	0	Adiantum compressum H+BK.	
	1	Pleurothallis grandis Rolfe	(Orch.)
	2	Chamaedorea pinnatifolia Burret? det. Bailey	(Palm.)
	3	Trichomanes polypodioides L.	
	4	Chamaedorea pacaya Oerst. det. Bailey	(Palm.)
	5	Asplenium harpeodes Kunze	
	6	Columnea verecunda Morton, n. sp. type.	
	7	Gnaphalium spicatum Lam.	
	8	Polybotrya plebeium Schl. & Cham.	
	9	" myriolepis C. Christ	
347	0	Eupatorium anisochromum Klatt	(Comp.)

3471	1	Paspalum candidum (H. & B.) Kunth	(Gram.)
	2	Oxalis corniculata L.	
	3	Rubus glaucus Benth.	
	4	Stachys costaricensis Brig.	
	5	Palicourea lasiorhachis Oerst.?	(Rub.)
	6	Monnina	
	7	Solanum robleense Bitter	
	8	Clematis dioica L.	
	9	Eurya Seemanniana Pittier	(Ternstr.?)
3480		Axinaea costaricensis Cogn.	(Melast.)
	1	Utricularia verapazensis Kuong	
	2	Viburnum venustum Morton	
	3	Clematis dioica L.	
	4	Begonia alnifolia A. DC.	
	5	Piper decurrens A. DC.	
	6	Cavendishia microphylla Oerst.	(Ericaceae)
	7	Eupatorium pycnocephalum Less.	(Comp.)
	8	Liabum polyanthum Klatt	"
	9	Begonia alnifolia A. DC	
3490		Zexmenia virgultorum Klatt	(Comp.)
	1	Selaginella	
	2	Centropogon lutana Pl. & Oerst.	(Lobeliac.)
	3	Selaginella	
	4	"	
	5	Panicum boliviense Hack.	(Gram.)
	6	Desmodium campyloclados Hemsl.	
	7	Begonia Valerii Standl.	
	8	" Valerii Standl.	
	9	Hyptis mutabilis (Rich.) Brig.	
3500		Hoffmannia pallidiflora Standl.	(Rub.)

3501	1	Diplazium Wercklianum Christ	
	2	Prunus cornifolia Koehne	
	3	Eupatorium Aschenborniana Schauer	(Comp.)
	4	Saurauia pseudorubiformis Busc.	
	5	Mikania Skutchii Blake	(Comp.)
	6	Miconia dolichopoda Nand. ait. Mondaca	(Melast.)
	7	Anthurium porrectum Schott	
	8	Holtonia n. sp.?	(?)
	9	Maxillaria Brenesii Schltr.	Orch.)
3510		Missing	
	1	Billia columbiana Pl. & Lind.	(Hipp.)
	2	Missing	
	3	Polypodium mortigenum Maxon	
	4	Dicranopteris bifida (Willd.) Maxon, nom. lat.	
	5	" costaricensis Underw.	
	6	Missing	
	7	Odontosoria gymnogrammoides Christ	
	8	Gymnogramma conjecta Christ	
	9	Paesia anfractuosa (Christ) C. Chr.	
3520		Dicranopteris retroflexa (Christ) Underw.	
	1	Myriocarpa longipes Liebm.	
	2	Trichomanes eximium Kunze	
	3	Epidendrum pygmaeum Hook.	(Orch.)
	4	Rubus volcanicola (O. Fm.) Rydb.	
	5	Epidendrum incomptum Rchb. f.	(Orch.)
	6	" " " "	"
	7	Missing	
	8	Miconia Pittieri Cogn.	(Melast.)
	9	Miconia glaberrima (Schl.) Naud.	"
3530		Alloplectus ichthyoderma Hanst.	

3531 Oxalis vulcanicola Hemsl. Smith
2 Bomarea porschiana Cuf.
3 Calceolaria mexicana Benth.
4 Piper irazuanum C. DC.
5 Besleria barbensis Hanst.
6 Dicliptera iopast Lindau (Acanth.)
7 Trichomanes radicans var. Kunzeanum (Hook. & Grev.
8 Ardisia glandulosa-marginata Oerst.
9 Polypodium angustifolium Sw.
3540 Asplenium conquisitum Und. & Maxon
1 Valeriana Candolleana Gardn.
2 Illegible
3 Salvia compacta Kuntze (Lab.)
4 Otopappus verbenoides Benth. (Comp.)
5 Castilleia communis Benth.
6 Guarea Tonduzii C.DC. (First flowering material collected).
7 Kohleria spicata (H.B.K.) ~~Hanst.~~ Oerst.
8 Calceolaria mexicana Benth.
9 Mauria biringo Tul. (?)
3550 Eupatorium Pittieri Klatt (Comp.)
1 Epidendrum exile Ames (Orch.)
2 Capsicum Standleyanum Morton (?)
3 Drymonia lanceolata (Hanst.) Morton
4 Columnea Oerstediana Hanst.
5 Alonsia microcarpa (Benth.) Rob. (Comp.)
6 Ranwolfia sarapiquensis Woodson n. sp. Type (?)
7 Illegible
8 Guzmania nicaraguensis Mez & C.T. Baker (Brom.)
9 Hymenophyllum intricatum Christ
3560 Dryopteris chiriquana C. Chr.

3561 Dryopteris patula (Sw.) Underw.
2 Dioscorea Standleyi Morton
3 Conostegia Pittieri Cogn. (Melast.)
4 Pithecellobium costaricense (B.&R.) Standl. (Mimos.)
5 ~~Pisonia~~ Urera caracasana (Jacq.) Griseb. var.
6 Hydrocotyle leucocephala C. & S.
7 Sida rhombifolia L.
8 Phenax hirtus (Sw.) Wedd. (Urtic.)
9 Phoradendron gracilispicum Trel. (Loranth.)
3570 Dendrophthora biserrula Eichl. "
1 Polygala
2 Anagallis pumila Swartz
3 Hydrocotyle bowlesioides Mathias & Constance n. sp. type
4 Capsicum consanguineum Morton n. sp. type
5 Dryopteris atrovirens C. Chr.
6 Hymenophyllum asplenioides Sw.
7 ~~Asplenium~~ Glockeria stricta Leonard (Acanth.)
8 ~~Pteris~~ Pteris altissima Poir.
9 ~~Besleria~~ formosa Morton ?
3580 Solanum longiconicum Bitter.
1 Miconia theaezans (Bonpl.) Cogn. (Melast.)
2 Cestrum Warscewiczii Klotzsch
3 ~~Oreopanax~~ Didymopanax Pittieri March.
4 Quercus acatana C.H. Muell. det. Muller
5 Urimya Wintert Forst. (?)
6 Vittaria Gardneriana Fée
7 ~~Capsicum~~ Hoffmannia longipetiolata Polak. ?
8 Euonymus costaricensis Standl. (Celast.)
9 Matelea tinctoria Woodson n. sp. type (?)
3590 Piper strigillinum Trel. n. sp. type

3591 Passiflora brevipila Killip n. sp. type (Certic)
2 Pilea Pittieri Killip
3 Anthurium pallens Schott.
4 Piper stylamentum Trel. n. sp. type.
5 Psychotria sp. (Rub.)
6 Capsicum Standleyanum Morton n. sp. type
7 Siparuna grisea Perkins
8 " parallelonerva Perkins
9 " patelliformis Perkins
3600 Hypolepis nida Metth
1 Dryopteris atrogrisea C-Chr.
2 Urera caracasana (Jacq.) Griseb. var. (Urtic)
3 Boehmeria ramiflora var. cuspidata Wedd. "
4 Gymnopteris Maxonii Broadh.
5 Piper obliquo-truncatum Trel. n. sp. type.
6 Persea Schiedeana Nees (?)
7 Lozanella enantiophylla (D. Sm.) Killip & Morton (Urtic)
8 Alloplectus tetragonus (Oerst.) Hanst. (Gesner)
9 Piper glabratinerve Trel. n. sp. type.
3610 Peperomia pozasana C. DC. (Euphorb.)
1 " apertc-ramosa Trel. n. sp. type.
2 Hymenophyllum costaricense v. d. B.
3 Solanum trizygum Bitter
4 Eupatorium Standleyi Rob. (Comp.)
5 Microtropis occidentalis Loes. (?)
6 Leptonia conchocalyx Hanst. (?)
7 Capsicum Standleyanum Morton
8 Cissus costaricensis (Polak.) Petrick
9 Markea leucantha Hemsl. f. m.
3620

3621 Guarea rhopalocarpa Radlk. (1st flowering & mature coll. Tuis) (Comp.)
2 Jungia ferruginea L. f.
3 Dioscorea Cepida Morton
4 Asplenium sp.
5 Piper rubidispicum Trel. n. sp. type.
6 Cavendishia quereme (HBK.) B. & H. (Eric.)
7 Oleome Gynandropsis pulcherrima Standl.
8 Peperomia Tonduzii C. DC.
9 " duplicornis Trel. n. sp. type
3630 " barba-poasana Trel. n. sp. type
1 Psammisia ramiflora Kl. (Eric.)
2 Selaginella
3 Adiantum tetraphyllum H. & B.
4 ~~Athyrium~~ Asplenium Solmsii Baker
5 Piper placens Trel. n. sp. type
6 Pteris ~~sp. nov.~~ paucinervata Fée
7 ~~Polypodium~~
8 Polypodium trifurcatum L.
9 Hymenophyllum ~~sp. Tuerckheim~~ microcarpum var. lanceolatum Morton type
3640 Stellaria ovata Willd. (Caryophyll.)
1 Pennisetum bambusiforme (Fourn.) Hemsl. (Gram.)
2 Cissampelos fasciculata Benth.
3 Pleurothallis compacta Ames & Schweinf. (Orch.)
4 Anthurium sp.
5 Boveria laevis (Lam.) Griseb. (Rub.)
6 Pilea parietaria (L.) Blume (Urtic.)
7 Axonopus compressus (S.W.) Beauv. (Gram.)
8 ~~Sporob~~ Sporobolus Poiretii (R. & S.) Hitchc. "
9 Peperomia triplamenta Trel. n. sp. type
3650 (Unidentified)

36 s-1 Nursing

2 Anthurium joseanum Engl. (Arac.)
3 Melinis minutiflora Beauv. (Gram.)
4 Lozania montana Standl. (?)
5 Pikania sp. (Comp.)
6 Histiopteris incisa (Thunb.) J. Sm.
7 Anthurium subcordatum Schott
8 Nursing
9 Isachne arundinacea (Sw.) Griseb. Gram.
3660 Piper sulcinervosum Trel.
1 Peperomia pachyclada Trel. n. sp. type.
2 Elcona Gymnadropsis pulcherrima Standl.
3 Pennisetum clandestinum Chiov. Gram.
4 Burmeistera cyclostigmata Hd. Sm. (Lobel.)
5 Anthurium scandens (Aubl.) Engl.
6 Pleurothallis lancilabris var. oxyglossa (Schltr.) Schweinf. (Orch.)
7 Nursing
8 Lepanthes blepharistes Rchb. f. (Orch.)
9 Rubus aberdarensis Rydb.
3670 Ipomoea tiliacea (Willd.) Choisy
1 Nursing
2 Ipomoea tiliacea (Willd.) Choisy
3 Piper callisiaecaule Trel. n. sp. type
4 Lasiacis Standleyi Hitchc. (Gram.)
5 Peperomia martagonifolia C. DC.
6 Piper difficile Trel. n. sp. type.
7 Lycopodium tubulosum Mann
7/7 Lycopodium linifolium L.
8 Peperomia ciliifera Trel.
9 Nursing
3680 Lasiacis Standleyi Hitchc. (Gram.)

52

3681 [illegible]

2 ~~Lomariopsis~~ Stenochlaena Maxonii Und. ?

3 Meliosma glabrata (Liebm.) Urban (?)

4 Struthiopteris Maxonii Broadh.

5 Diplazium macrophyllum Maxon.

6 Peperomia dispansa Trel. n. sp. type.

7 Anthurium Pittieri Engl.

8 [illegible]

9 Hoffmannia hondurensis Standl.? (Rub.)

3690 Coussarea Austin-Smithii Standl. "

1 Asplenium radicans L. var.

2 Diplazium obscurum Christ

3 Struthiopteris polypodioides (Sw.) Trev.

4 Anthurium Pittieri Engl.

5 Lycopodium reflexum Lam.

6 Liabum Bourgeani Hieron. Comf.

7 Tournefortia glabra L.

8 Lycopodium callitrichaefolium Mett.

9 Eupatorium Thieleanum Klatt (Comp)

3700 Senecio megaphyllus Greenm. "

1 Solenophora calycosa Donn. Sm.

2 ~~Celtis~~ Trema micrantha (L.) Blume

3 Juncus microcephalus HBK.

4 [illegible]

5 Inga laurina (Sw.) Willd.

6 Anthurium protensum Schott

7 Cavendishia complectens Hemsl. Eric.)

8 Clethra vulcanicola Standl. Nuevo Costa Rica.

9 Hasseltia floribunda HBK. (?)

3710 Thibaudia costaricensis Hoer. (Eric.)

3711	Sickingia n. sp.?	(Pub.)
2	Solanum nigrum L.	
3	Missing	
4	Trichomanes lucens Sw.	
5	Stelis despectans Schltr.	(Orch.)
6	Cestrum Endresii Francey?	
7	Masdevallia triaristella Rchb. f.	(Orch.)
8	Missing	
9	Polypodium limula Christ	
3720	Cephaelis axillaris Sw.	(Pub.)
1	Citharexylum caudatum L.	
2	Stenthiopteris polypodioides (Sw.) Trev.	
3	~~Bradburya~~ Mucuna urens (L.) DC.	
4	~~Croton~~ Hieronyma oblonga (Tul.) Muell. arg.	
5	Palicourea chiriquina Standl.?	(Pub.)
6	Piper poaso-barbanum Trel. n. sp. type.	(Pip.)
7	Picramnia carpinterae Polak.	(?)
8	Missing	
9	Ilex lamprophylla Standl.?	(Celastr.)
3730	Missing	
1	Lycopodium sp. nov.	
2	Acalypha Ferdinandi var. pubescens K. Hoffm.	
3	Piper coiturinode Trel. n. sp. type.	
4	Missing	
4½	(Palm) Chamaedorea ~~n. sp.?~~ sp. det. Bailey	
5	Missing	
6	Phoebe Pittieri Mez	(Laurac.)
7	Lindsaea ~~lancastrioides Hook.~~ arcuata Kze. det Kramer	
8	Missing	
9	Piper hebetatum Trel. n. sp. type	
3740	Piper caillocanum C. DC.	

3741	Piper inulum Trel. n. sp. type	
2	Scleria	
3	Gilibertia arborea (L.) March.	(Aral.)
4	Scaphosepalum Standleyi Ames	(Orch.)
5	Ocotea sp.	(Laur.)
6	Cestrum poasanum Donn. Sm.	
7	Oplismenus hirtellus (L.) Beauv.	(Gram.)
8	Uncinia hamata (Sw.) Urban	
9		(Rub.)
3750	Urera alceifolia Gaud.	(Urtic.)
1	Polypodium sp. not recognized	
2	Besleria Wendlandiana Hanst.	
3	Neurocallis praestantissima (Bory) Fée	
4	Trichilia havanensis Jacq.	?
5	Ocotea pentagona Mez	(Laur.)
6	Psychotria Torresiana Standl.	(Rub.)
7	Masdevallia anura Kränzl.	(Orch.)
8		
9		
3760	Stelis pardipes Rchb. f.	(Orch.)
1	Cavendishia Smithii Hoer.	(Eric.)
2	Marcgravia polyantha Delp.	(Marcgr.)
3	Inga Ratzipia Pittieri	
4	Pleurothallis lancilabris (Rchb. f.) Schltr.	(Orch.)
5		(Lauth.)
6	Grammadenia costaricana (Hemsl.) Mez	?
7	Piper pseudolanceaefolium Trel.	
8	Miconia costaricensis Cogn.	(Melast.)
9	Cuspania grandiflora Morton, n. sp. type	?
3770	Rubus impressus Morton n. sp. type	

3771 Campanea Oerstedii Kl.
2 Drymonia conchocalyx Hanst. (Gesn.)
3 Turpinia occidentalis (Sw.) Don ?
4 Elaphoglossum tectum (Hook.) Moore
5 missing
6 Stelis leucopogon Rchb. f. (Orch.)
7 Symploca Austin-Smithii Standl.? exchan. ?
8 Brunellia costaricensis Standl.
9 (Euphorb.)
3780 Inga latipa Pittier
1 Lozania montana Standl. (Flac.)
2 Dichapetalum Donnell-Smithii Engl. ?
3 Polypodium jungermannioides Kl.
4 Struthanthus marginatus (Desr.) Blume (Loranth.)
5 Tresea Wercklei Schltr. (Orch.)
6 Eupatorium parasiticum Klatt (Comp.)
7 ~~Croton~~ Hieronyma oblonga (Tul.) Muell. arg.
8 Dichapetalum Donnell-Smithii Engl. (Chrysobal.)
9 Poulsenia glaberrima Pittier
3790 Cavendishia capitulata Donn. Sm. (Ericac.)
1 Cavendishia melastomoides (Kl.) Hemsl. "
2 Oncidium bracteatum Rchb. f. + Warsc.
3 Centropogon palmanus (D. Sm.) Wimmer (Lobeliac.)
4 Cuphea calophylla C. + S.
5 Viola stipularis Sw.
6 Luehea speciosa Willd. Tiliac.
7 6x (Bonarea) Bonarea porschiana Lieb. Cruc.
Cissus breviper Morton + Standl.
8 Tetrastylis lobata Killip Pass.
9 Justicia metallica Lindau Acanth.
3800 " " " Gesn.

3801 Peperomia adepilata Trel. n. sp. Type
2 Lasiacis Standleyi Hitchc.
3
4 Pharus parvifolius Nash
5 Pharus virescens Doell.
6 Chusquea Pittieri Hack.
7 Piper formicitolerans var. filipes Trel. n. var. Type
8 Piper fili-terminale Trel. n. sp. Type
9
3810 Piper carilloanum C. DC. forma
1
2
3 Siparuna patelliformis Perkins
4 Sauravia costaricensis Klotzsch. Sm.
5 Casearia n. sp.? = 2428
6 Wissadula excelsior (Cav.) Presl
7 Lasiacis rusciifolia (H.B.K.) Hitchc.
8 Spilanthes oxyphylla (Lam.) G. M. Barroso
9 Arundinella Deppeana Nees
3820 Heliocarpus excelsior Morton
1 Lasiacis oaxacensis (Steud.) Hitchc.
2 Athyrocarpus rufipes (Scrib.) Standl.
3 Ipomoea Tuerckheimii Vatke
4 Orthoclada laxa (L. Rich.) Beauv.
5 Capsicum tetramerum Standl. & Morton
6
7 Casearia sylvestris Sw.
8 Schultesia lisianthoides (Griseb.) B. & H.
9 Heliocarpus dentatus (Aubl.) Standl
3830 Ichnanthus pallens (Sw.) Munro

3831 Cordia polycephala (Lam.) Johnst.
2 Piper longipetiolatum (C. DC.) Trel.
3 Phthirusa pyrifolia (H.B.K.) Eichl.
4 Inga confusa B. & R.
5 Cynoctonum mitreola (L.) Britt.
6 Nectandra globosa (Aubl.) Mez
7 Cryptanthus spicatus (Jacq.) Eichl.
8 Lobelia xalapensis H.B.K.
9 Euphorbia hirta L.
3840 Polygala brizoides St. Hil.
1 Juanulloa Sargii Donn. Sm.
2 Jacobinia macrantha (Benth.) Hemsl.
3 Justicia pectoralis Jacq.
4 Phoebe neurophylla Mez & Pitt.
5 Croton glabellus L.
6 Peperomia pellucida (L.) H.B.K.
7 Pilea hyalina Fenzl
8 Oxalis corniculata L.
9 Blechnum fraxineum Willd. sens. lat.
3850 Piper bonum Trel. n. sp. type
1 Blechum costaricense Oerst.
2 Heliocarpus excelsior Morton
3 Euphorbia graminea Jacq.
4 Peperomia paloclada var. memoranda Trel. n. var. type
5
6
7 Parathesis serrulata (Sw.) Mez
8 Banisteria Beecheyana (Juss.) C. B. Rob.
9 ~~Banist~~ Matayba scrobiculata (H.B.K.) Radlk. new to Costa Rica.
3860 Canavalia panamensis Piper?

3861 Passiflora biflora Lam.
2 Lasiacis sorghoidea (Desv.) H. & C.
3 " oaxacensis (Steud.) Hitchc.
4 Prestonia dentigera Woodson, sp. nov. Type
1 Pavonia oxyphyllaria D. Sm.
6 Piper sagittifolium var. reductum Trel. n. var. Type
~~Piper pubinerve C. DC.~~
7 Piper falcatispicum Trel. n. sp. Type
8 Piper pubinerve C. DC.
9 Desmodium axillare var. Sintenisii Urban
Trichomanes diversifrons (Bory) Mett.
3870 ~~Dryopteris submarginalis (L. f.) C. Chr.~~
1 Lasiacis scabrior Hitchc.
2 Trichomanes rigidum Sw
3 Clibadium Pittieri Greenm.
4 Panicum pulchellum Raddi
5 Lasiacis ruscifolia (HBK) Hitchc.
6 Lasiacis ruscifolia (HBK.) Hitchc.
7 Ichnanthus tenuis (Presl) N. & C.
8 Panicum polygonatum Schrad.
9 Trema micrantha (L.) Blume
3880 Serjania corrigera Turcz.
1 Zexmenia virgulta Klatt
2 Cestrum alternifolium (Jacq.) O. E. Schulz
3 Psychotria psychotriifolia (Seem.) Standl.
4 Paragonia pyramidata (Rich.) Bur. ex K. Schum.
~~Cydista aequinoctialis (L.) Miers~~
5 Justicia comata (L.) Lam.
6 Desmodium canum (Gmel.) Schinz & Thell.
7 Ichnanthus tenuis (Presl) N. & C.
8 Sauvagesia erecta L.
9 Stellaria ovata Willd.
3890 Panicum pulchellum Raddi

3891 Tovina fluviatilis Aubl.
2 Acisanthera rostellata (Naud.) Triana
3 Desmodium scorpiurus (Sw.) Hemsl.
4 Centrosema pubescens Benth.
5 Hygrophila guianensis Nees
6 Selaginella arthritica Alston
7 Piper rivuli-quaeritans Trel. n. sp. type
8 Adiantum macrophyllum Sw.
9 Tetrastylis lobata Killip
3900 Pavonia dasypetala (Turcz.) Standl.
1 Cissus rhombifolia Vahl
2 Cyathula achyranthoides (H.B.K.) Moq.
3 Lindackeria laurina Presl
4 Psychotria viridis R. & P.
5 Miconia candata DC.
6 Nectandra sp.
7 Piper formicitolerans Trel.
8 Begonia filipes Benth.
9 Psychotria cuspidata Bredem.
3910 Thelypteris submarginalis (L. & F.) C. Chr.
1 Eupatorium pittieri Klatt
2 Adiantum petiolatum Desv.
3 Desmodium Woydelianum Urban
4 Pseudima Friedrichsthaliana (Berg) Hitchc.
5 Inga punctata Willd.
6 Xylopia frutescens Aubl.
7 Xylopia aromatica (Lam.) Mart.
8 Calopogonium mucunoides Desv.
9 Solanum ~~hirsutissimum Standley & Costa Rica~~ Alexandri Morton n. sp. type
3920 Solanum salviifolium Lam.

3921		Pteris biaurita L.	
	2	Heliocarpus appendiculatus Turcz.	
	3	Banisteria Beecheyana (Juss.) C.B. Rob.	
	4	Serjania sp. aff. racemosa Schum.	
	5	Piper riparense C. DC.	
	6	Solanum jamaicense Mill.	
	7	Vismia ferruginea HBK.	
	8	Cestrum panamense Standl.	
	9	Piper pravum Trel. n. sp. Type	
3930		Solanum hirsutissimum Standl.	
	1	Hyptis recurvata Poit.	
	2	Oldenlandia herbacea (L.) DC.	
	3		
	4		
	5	Bidens pilosa L.	
	6	Indigofera mucronata Spreng.	
	7	Clibadium surinamense L.	
	8	Spilanthes oxyphylla (Lam.) G.H. Brown	
	9	Spananthe paniculata Jacq.	
3940		Lonchocarpus guatemalensis Benth.	
	1	Aphelandra sinclairiana Nees	
	2	Chaetochlamys panamensis Lindau	
	3	Spilanthes oxyphylla (Lam.) G.H. Brown	
	4	Cuphea retroriculata Koehne	
	5	Synedrella nodiflora (L.) Gaertn.	
	6	Setaria vulpiseta (Lam.) R.+S.	
	7	Portulaca oleracea L.	
	8	Hirtella americana L. (syn. triflora HBK)	
	9	Adiantum concinnum H.+B.	
3950		Pogonopus speciosus (Jacq.) Schum. Rare in Costa Rica	

395 1 Paspalum paniculatum L. Gram
2 Luehea Seemannii Tr. & Pl. Tam
3 Machaerium acanthothyrsus Pittier Machaerium
4 Lon
5 Psychotria marginata Sw. Rubi
6 Passiflora Oerstedii Mast. Pass
7 Cyphomandra costaricensis Hemm. Sm. Cyphom
8 Cissampelos tropaeolifolia DC. Menisp
9 Solanum salviifolium Lam. Sola
396 0 ~~Hybanthus attenuatus (H.B.K.) G.K. Schulze~~ Thiemei (Ld. Sm.) Morton Violaceae
1 Trichilia Oerstediana C.DC. Meliaceae
2 Eupatorium odoratum L. Comp
3 Hymenachne donacifolia (Raddi) Chase Gram
4 Centradenia Maxoniana Gleason Melast
5 Posadaea sphaerocarpa Cogn. New to Costa Rica Cucurb
6 Begonia cuspidata C.DC. Begonia
7 Croton glandulosus L. Euphor
8 Melampodium flaccidum Benth. Comp
9 Polygala brizoides St. Hil. Polygalac
397 0 Eleusine indica (L.) Gaertn. Gram
1 Digitaria sanguinalis (L.) Scop. Gram
2 Borreria ocymoides (Burm.) DC. Rubi
3 Polygala paniculata L. Polygal
4 Acalypha arvensis Poepp. & Endl. Euphor
5 Hybanthus ~~attenuatus (H.B.K.) G.K. Schulze?~~ Thiemei (Ld. Sm.) Morton Violaceae
6 Guazuma ulmifolia Lam. Sterculiac
7 Panicum trichoides Sw. Gram
8 Oncidium Titania Schltr. Orch
9 Odontonema strictum (Nees) Kuntze Acanth
398 0 Hodiocarpus multiflorus Standl. New to Costa Rica

3981 Condaminea corymbosa (R.+P.) DC. Mem. Costa Rica
2 Solanum celsum Standl. & Morton
3 Meliothria guadalupensis (Spreng.) Cogn.
4 Tectaria rheosora (Baker) C. Chr.
5 Siparuna patelliformis Perkins
6 Cecropia mexicana Hemsl.
7 Saccoloma inaequale (Kunze) Mett.
8 Brickellia diffusa (Vahl) Gray
9 Psidium Friedrichsthalianum (Berg) Nied.
3990 Terminalia chiriquensis Pittier
1 Cupania fulvida Tr. & Pl. ?
2 Eugenia Oerstediana Berg
3 Tetrapteris acapulcensis HBK.
4 Panicum zizanioides HBK.
5 Sommera grandis (Bartl.) Standl.
6 Calopogonium caeruleum Benth.
7 Cuphea carthagenensis (Jacq.) Macbr.
8 Desmodium adscendens (Sw.) DC.
9 Heteranthera reniformis R.+P.
4000 Bacopa procumbens (Mill.) Greene.
1 Canna lutea Mill.
2 Senecio Hoffmannii Klatt
3 Ipomoea Nil (L.) Roth
4 Panicum maximum Jacq.
5 Merremia aegyptia (L.) Urban
6 Callisia monandra (Sw.) Schult.
7 Rivinia Tonduzii Rob.
8 Pseudechinolaena polystachya (HBK.) Stapf
9 Paychotria brachiata Sw.
4010
4011 Ficus costaricana (Liebm.) Miq.
2 Desmodium scorpiurus Desv.
3 Cordia bicolor DC. Apparently new to Costa Rica
4
5
6 Hoffmannia roseo-labiata Donn. Sm. var. glabra ulbine
7 Perechites trifida (Jacq.) Woodson
8 Trixis divaricata (HBK.) Spreng.
9 Eupatorium elatum Steetz
Selaginella sp.

402 1 Phyllanthus Pittieri Pax
2 Eragrostis ~~mag~~ mayarensis (H.B.K.) Steud.
3 Struthanthus polystachyus (R. & P.) Blume
4 Erythrina Berteroana Urban
5 Justicia Oerstedii Leonard
6
7 Croton Tonduzii Pax
8 Zinowiewia costaricensis Lundell
9 Rapanea pellucido-punctata (Oerst.) Mez
403 0 Cordia bicolor DC.
1 Rhynchosia pyramidalis (Lam.) Urban
2 Simaruba glauca DC.
3 Micania ibaguensis (Bonpl.) Triana
4 Paspalum conjugatum Berg
5 Hyparrhenia rufa (Nees) Stapf
6 Justicia pectoralis Jacq.
7 Passiflora ambigua Hemsl.
8 Tetrapteris sp.? Fruit necessary.
9 Ichnanthus pallens (Sw.) Munro
404 0 Lasiacis sorghoidea (Desv.) H. & C.
1 Myrcia plicato-lobata Berg
2 Phoebe costaricana Mez & Pitt. Previously known only from type
3
4 Henriettella Seemannii Naud.
5 Eugenia Oerstediana Berg
6 Belotia macrantha Sprague
7 Heltonia myriantha Standl.
8 Smilax panamensis Morong
9 Melissma grandiflora Hunter n. sp. Type
405 0

4050 1 Hieronyma oblonga (Tul.) Muell. arg.
2 Lisboa Bonpl. Heim.
3 Panicum Haenkeanum Presl
4 Coix lacryma-jobi L.
5 Olyra latifolia L.
6 Hymenocephalus cordatus (H.+A.) Bleeker
7 Miconia longifolia (Aubl.) DC.
8
9 Strychnos sp. perhaps new.
4060 Justicia pectoralis Jacq.
1
2 Merremia umbellata (L.) Hallier
3 Pavonia paniculata Cav.
4 Sida pyramidata Desp.
5 Paspalum virgatum L.
6 Panicum grande H.+C.
7 Sida glutinosa Comm.
8 Passiflora biflora Lam.
9 Euphorbia hypericifolia L.
4070 Byttneria aculeata Jacq.
1 Matelea cynanchiflora Woodson n. sp. type
2 Miconia Matthaei Naud.
3 Dalechampia panamensis Pax + Hoffm.
4 Solanum accrescens Standl. + Morton
5 Hemidiodia ocymifolia (Willd.) Schum.
6 Jacquemontia ciliata Sandw.
7 Xylosma intermedium (Tr. + Pl.) Griseb.
8 Eupatorium microstemon Cass.
9 Eupatorium sp.
4080 Alchornea latifolia Sw.

4081	1	Miconia honduvensis Wm.	Mel
	2	Piper deductum Trel.	Piper
	3	Pourouma aspera Trecul.	Tam
	4	Miconia Chamissois Naud.	Mel
	5		Cog
	6	Alex Valerii Standl.?	Rub
	7	Centrosema virginianum (L.) Benth.	Leg
	8	Clidemia rubra (Aubl.) Mart.	Mel
	9	Axonopus aureus Beauv.	Gra
4090		Jacquemontia azurea (Vesc.) Choisy	Convol
	1	Hasseltia Kunthii St. Hil.	Hasse
	2	Miconia pteroporda Benth.	Mel
	3	Vismia latifolia. Choisy	Hyp
	4	Clidemia neglecta W. Wm	Mel
	5	Paspalum decumbens Sw.	Gra
	6	Coccocypselum glabrum DC. Hems & Costa Rica.	Rub
	7	Rhynchanthera paludosa (W. Wm.) Gleason	Mel
	8	Palicourea triphylla DC.	Rub
	9	Miconia borealis Gleason	Mel
4100		Andropogon virgatus Desv.	Gra
	1	Acisanthera recurva (H.C. Kuch) Griseb.	Mel
	2	Miconia rubiginosa (Bonpl.) DC.	Mel
	3	Xyris macrocephala Vahl	Xyr
	4	Elvechasia packystigla (C. Wright) Cogn.	Mel
	5	Lindsaea stricta (Sw.) Dry. f. montziana (Kl.) Kramer det-Ka.	Pter
	6	Trichomanes pinnatum Hedw.	"
	7	Lophidium elegans (Vahl) Presl	"
	8	Miconia pteroporda Benth.	Mel
	9	Lisianthus Seemannii (Griseb.) Perkins	Gen
4110		Eupatorium amygdalinum Lam.	Comp

✓	411	1	Inga marginata Willd
		✓ 2	Vernonia Seemanniana Steetz
		✓ 3	Pennisetum purpureum Schumach.
		✓ 4	Scaphyglottis mexicana (Endrs. + Rchb. f.) B. + H.
		✓ 5	Panicum sp.
		✓ 6	Sommera grandis (Bartl.) Standl.
		✓ 7	Leiophyllum unguiculata Nees
		✓ 8	Mikania guaco H. + B.
		✓ 9	Angurica near Tondusii Cogn.
✓	4120		Caesalpinia pulcherrima L.
		✓ 1	Ipomoea n. sp.?
		✓ 2	Wiemia punctata (Aubl.) D. Don
		3	
		4	
		✓ 5	Schlegelia Ramisii var. costaricensis Standl. var. nov. type
		6	
		✓ 7	Lindsaea lancea (L.) Bedd.
		✓ 8	Lantana grosseserrata Moldenke, n. sp. type
		✓ 9	Mandevilla hirsuta (A. Rich.) K. Sch.
✓	4130		Hirtella americana L. (syn. nudiflora HBK)
		✓ 1	Tournefortia bicolor Swartz
		✓ 2	Cordia globrata. cryptogyna Pitt.
		✓ 3	~~Cydista aequinoctialis (L.) Miers~~ Pyrgidia pyramidata (Rich.) Bur.
		✓ 4	~~Russelia verticillata HBK.~~ tarmentosa Jacq. det. Carlson
		✓ 5	Mikania nipana Greenm.
		✓ 6	Siparuna nicaraguensis Hemsl.
		✓ 7	Liabum sp.
		✓ 8	Mikania Skutchii Blake
		✓ 9	Aegiphila magnifica var. pubescens Moldenke type
✓	4140		Lecliptera Skutchii Leonard

4141 Bernieratea cyclostegmata Hemsl. Sm.
2 Faramea suerrensis Hemsl. Sm.
3 Marcgravia guatemalensis Standl. here to Costa Rica
4 Begonia n. sp.
5 Centropogon rutans Pl. + Oerst.
6 Rondeletia n. sp.?
7 Solanum trizygum Bitter
8 Eupatorium sp.
Do not list 9 Bomarea chontalensis Seem.
4150 Capparis discolor D. Sm.
1 Lygodium radiatum Prantl
2 Machaerium floribundum Benth.
3 Acalypha macrostachya Jacq.
4 Miconia brenesiana D. Sm.
5
6 Jussiaea suffruticosa L.
7 Peperomia umbrigaudens Trel. n. sp. type
8 Eupatorium vitalbae DC.
9 Cornostegia Bernoulliana Cogn.
4160 Miconia dodecandra (Desr.) Cogn.
1 Piptocarpha chontalensis Baker
2 Henriettella flavescens (Aubl.) Triana
3 Bombacopsis sessilis (Benth.) Pitt.
4 Ficus Tonduzii Standl.
5 Psychotria Haberiana Standl.? ex char. [Psychotria darienensis Standl.]
6 Psychotria brachiata Sw.
7 Marila verapazensis Hemsl. Sm.
8 Hippocratea volubilis L.
9 Hicranopteris bifida (Willd.) Maxon
4170 Epidendrum imatophyllum Lindl.

417 1 Guatteria dolichopoda D. Sm.
2 Nectandra sp.
3 Licaropteris pectinata (Willd.) Anders.
4 Jussiaea lithospermifolia Kunth
5 Conostegia xalapensis (Bompl.) D. Don. (C. lanceolata Cogn.)
6 Vernonia argyropappa Buek
7 Arundinella Hoffmanni Hack
8 Piper praemorsicaudatum Trel. n. sp. type
9

418 0

1 Orthoclada laxa (L. Rich.) Beauv.
2 Nectandra glabrescens Benth.
3 Salmea scandens (L.) DC.
4

5 Asplenium Solmsii Baker
6 Blechnum occidentale L.
7 Salvia drymocharis Epling
8 Stemodia pedunculosa Benth.
9 Hamelia patens Jacq.

419 0 Eupatorium vulcanicum Benth.
1 Lippia Torresii Standl.
2 Salvia Holwayi Blake
3 Eupatorium microstemon Cass.
4 Mauria birsingo Tul.
5 Lozanella enantiophylla (D. Sm.) Killip + Morton
6

7 Eupatorium daleoides (DC.) Hemsl.
8 Cestrum dumetorum Schlecht.
9 Cestrum dumetorum Schlecht.

420 0 Eupatorium Tonduzii Klatt

✓ 4220	1	Hymenophyllum fucoides Sw.	Pter
✓	2	Wigandia caracasana H.B.K.	Wigandia
✓	3	Dendiptera unguiculata Nees	Dendiptera
✓	4	Mauria glauca A.-Gr.	Mauria
✓	5	Centradenia grandifolia (Schl.) Endl.	Mel
	6	Lamourouxia lanceolata Benth.	Lamourouxia
	7	Marica gracilis Herb.	Iris
✓	8	Miconia sp.	Mel
✓	9	Ruellia tetrastichantha Lindau	Ruellia
✓ 4210		Columnea florida Morton	Columnea
	1		Gesn.
✓	2	Aphelandra Tonduzii Leonard	Acanth
✓	3	Sciodaphyllum asperulum A.-Gr.	Rubi
✓	4	Poikilacanthus maccanthus Lindau	Acanth
✓	5	Rudgea Shutchii Standl.	Rub
✓	6	Piper caribboanum C. DC. forma	Piper
✓	7	Capparis discolor A.-Gr.	Capparis
✓	8	Solanum lanceifolium Jacq.	Sol
✓	9	Eupatorium platyphyllum Rob.	Comp
4220			Gram
✓	1	Dioscorea cyanisticta Uhm. Sm.	Dioscor
	2		Acan
✓	3	Rondeletia buddleioides Benth.	Rub
✓	4	Stachytarpheta ~~Frantzii Pckst.~~ mutabilis var. violacea Mold. type	Stachy
✓	5	Pourouma aspera Trecul.	Mor
✓	6	Heliocarpus appendiculatus Turcz.	Heliocarpus
✓	7	Solanum jamaicense Mill.	Sol
✓	8	Urochloa decumbens Stapf	Gram
	9		Comp
✓ 4230		Vernonia brachiata Benth.	

4231 Trizeuxis falcata Linde.
2 Inga multijuga Benth.
3 Mendoncia Lindavii Rusby
4 Guatteria recurvisepala Trin n. sp. type
5 Sapium jamaicense Sw.
6 Alternanthera lagunoides Standl.
7 Olyra latifolia L.
8 Olyra caudata Trin.
9 Acacia Farnesiana (L.) Willd.
4240 Vitis tiliifolia H.+B.
1 Virola Koschnyi Warb.
2 Triplaris americana L.
3 Vernonia patens H.+B.K.
4 Protium costaricense (Rose) Engl.
5 Entada gigas (L.) Fawc. + Rendle
6 Guarea Seemanniana Cogn.
7 Trixis radialis (L.) Kuntze
8 Dryopteris serrulata (Cav.) C. Chr.
9 Dryopteris opposita (Sw.) Urban
4250 Pterocarpus Hayesii Benth.
1 Eugenia Oerstediana Berg
2 Terminalia chiriquensis Pittier
3 ~~Lonchocarpus~~ Posoqueria latifolia (Lam.) R. + S.
4 Securidaca sylvestris Schlecht.
5 Tamarindus indica L.
6 Conocarpus Howell-Smithii Millsp.
7 Clethra lanata M. + G.
8 Pleonotoma variabile (Jacq.) Miers
9 Tricomia scorpioides (L. + S.) Kunth.
4260 Virola Koschnyi Warb.

1st lot rec'd Aug 1939

426 1 Bonisteri Beecheyana (Juss.) C.B. Rob.
2 Coussapoa Donnell-Smithii Miedbr.
3 Ficus colubrinae Standl.
4 Croton glatellus L.
5 Calonictyon aculeatum (L.) House
6 Urera laciniata Wedd.
7 Coussapoa Donnell-Smithii Miedbr.
8 Machaerium marginatum Standl.
9 Codonanthe crassifolia (Focke) Morton
427 0 Ocotea cernua (Nees) Mez
1 Acalypha diversifolia var. leptostachya (HBK.) Pax & Hoffm.
2 Serjania mexicana Willd.
3 Davilla rugosa Poir.
4 Pterocarpus Hayesii Benth.
5 Lucheа speciosa Willd.
6 Miconia argentea (Sw.) DC.
7 Zinowiewia costaricensis Lundell
8 Symplocos costaricana Hemsl.
9 Allophylus panamensis Radlk.
428 0 Calyptrella cyclophylla L. Sm.
1 Tetrathylacium costaricense Standl.
2
3 Cissampelos pareira L.
4 Piper longepetiolatum var. Skutchii Trel. Type
5 Odontadenia puncticulosa (A. Rich.) Pulle. Hunts H. America
6 Hasseltia floribunda HBK.
7
8 Inga marginata Willd.
9 Miconia laevigata (L.) DC.
429 0 Piptocarpha chontalensis Baker

4291 Acalypha diversifolia var. carpinifolia (Poepp. + Endl.) Muell. arg.
2 Celtis iguanaea (Jacq.) Sarg.
3 Clethra lanata M. + g.
4 Hamelia axillaris Sw. Rub
5 Vochysia aurea Hafler n. sp. Co-type ~~hondurensis~~ Sprague
6 Pithecellobium longifolium (H.B.K.) Standl. Mim
7 Miconia impetiolaris (Sw.) D. Don
8 ~~Lycianthes~~ Solanum (Lycianthes) ~~costaricensis~~ ferrugineum (Bitt.)
9 Columnea affinis Morton, n. sp. type
4300 Nica psychotrioides D. Don. det. Standley (Rau ?)
1 Piper exili- ~~foliipedunculum~~ Trel. type
2 Phyllanthus Pittieri Pax
3 Ocotea ira Mez & Pitt. Lau.
4 Casearia javitensis H.B.K.
5 Fischeria funebris (Mann. Sm.) Blake Adel
6 Casearia ? Standl. (Rau ?)
7 Stelis sp. Orch
8 [illegible]
9 [illegible]
4310 [illegible]
1 Siparuna guianensis Aubl. (Rau ?)
2 Dichromena leucocephala Nees. det. Standl.
3 Trichilia montana H.B.K. Sap.
4 Cordia polycephala (Lam.) Johnst.
5 Citharexylum Cooperi Standl.
6 Machaerium dariense Pittier Hemsl. Costa Rica Leg.
7 ~~Annona~~ Rollinia Standleyi R.E. Fries
8 Psychotria horizontalis Sw.
9 Hamelia patens Jacq. Rub
4320 Miconia Schlimii Triana Mel

4321 Byrsonima crassifolia (L.) HBK.
2 Rudgea cornifolia (H+B.) Standl. (Fam?)
3 Mendoncia Lindavii Rusby
4 Stryphnodendron excelsum Harms (Fam?)
5 Phyllanthus Skutchii Standl. n. sp. (Fam?)
6 Sloanea guapiquensis Standl. palmana Standl. det. Standl. Tiliac.
7 Turpinia paniculata Vent. Fam.
8 Nectandra sp. Laur.
9 Phoebe neurophylla Mez & Pitt. Laur.
4330 Erigeron bonariensis L.
1 Desmodium axillare var. Sintenisii Urban
2
3
4 Elaphoglossum
5
6 Passiflora Tetrastylis lobata Killip
7 Hasseltia macroterantha Standl. n. sp. type Tic
8 Solanum rugosum Dunal
9 Xylopia aromatica (Lam.) Mart.
4340 Croton glandulosus L. lobatus L. det. Standl.
1 Cymbopetalum costaricense (D. Dun.) R.E. Fries Anon.
2 Pavonia Maxonii Standl.
3 Desmodium adscendens (Sw.) DC. det. Schubert Standl.
4 Desmodium axillare var. acutifolium (Kuntze) Urban
5 Clethra lanata M. & G.
6 Desmodium Wydlerianum Urban det. Schubert
7 Psychotria Valeriana Standl.? ex char. solitudinum Standl. n. sp. type
8 Miconia laevigata (L.) DC.
9 Heliotropium indicum L.
4350 Dysmonia Alloplectus consanguineus Morton, n. sp. type

4351		Erythroxylon lucidum var. costaricense (O. Sm.) Schulz	(Fam?)
✓	2	Micania Matthaei Mand.	Mel.
✓	3	Dryonoma spectabilis (H.B.K.) Mart.	
✓	4	Tassadia recurva Ruby del Standl.	(Fam?)
✓	5	Heliotropium lagoense (Warm.) Gürke	Rub
✓	6	Declieuxia fruticosa var. mexicana (D.) Standl.	Rub
✓	7	Cordia toqueve Aubl.	(Fam?)
✓	8	Micania dodecandra (Desr.) Cogn.	Mel
✓	9	Rhynchospora cephalotes Vahl del Standl	
✓ 4360		Henriettea succosa (Aubl.) DC.	Mel
✓	1	Polyporium n. sp.	
✓	2	Symplocos costaricana Hemsl.	(Fam?)
✓	3	Euphorbia thymifolia L.	
✓	4	Cyperus microdontus Pois del Standl	
✓	5	Cyperus cayennensis (Lam.) Britt del Standl	
✓	6	Setaria geniculata (Lam.) Beauv.	Gram
✓	7	Bulbostylis capillaris (L.) Kunth del Standl	Cyp.
✓	8	Ophioglossum reticulatum L.	
✓	9	Polypodium fallax Schl. & Cham.	
✓ 4370		Ardisia compressa var. crenata Morton, var. nov. typ.	
✓	1	Ardisia Skutchii Morton	
✓	2	Capparis sp. aff. discolor D. Sm.	
✓	3	Saracha procumbens (Cav.) Ruiz & Pavon	
✓	4	Nectandra panamensis Mez	Laur
✓	5	Paspalum plicatulum Michx.	
✓	6	Fimbristylis dichotoma (Retz.) Vahl del Standl	Cyp.
✓	7	Croton sp. Skutchii Standl. type	
	8	Mantley	~~Cyp.~~
	9	Mantley	
4380		Echinochloa pyramidalis (Lam.) Link del Standl	Cyp.

4381 Dryopteris opposita (Sw.) Urban
2 Pityrogramma calomelaena (L.) Link
3 ~~Lycianthes~~ Solanum (Lycianthes) asperatiflorum Sendtn.
4
5 Paullinia fasciculata Radlk.
6 Nesa psychotrioides D.Don. det. Standl
7 Miconia impetiolaris (Sw.) D. Don
8 Solanum hirsutissimum Standl. Costa Rica
9
4390 Eugenia Pittieri Standl.
1 Eschatogramme panamensis C. Chr.
2
3
4
5
6
7
8
9
4400
1
2
3
4
5
6
7
8 Ageratum conyzoides L. det. Standl
9 Kuhnia Rosea [illegible] det. Standl

4410 Exportation marchandises Cap de Bonne Espérance

4420

4430

4440
1
2
3
4
5
6
7
8
9
4450
1
2
3
4
5
6
7
8
9
4460
1
2
3
4
5
6
7
8
9

4470
✓ 1 Orthoclase Land (L.) Jeuchtw. Stat Hamel
2
3
4
5
6
7
8
9
4480
1
✓ 2 Thermogravimetric characterization of Vulcanized Rubber. Stat Hamel
3
4
5
6
7
8
9
4490
1
2
3
4
5
6
7
8
9

4500
1
2
3
4
5
6
7
8
9
4510
1
2
3
4
5
6
7
8
9
4520
1
2
3
4
5
6
7 Bovaria reynosa (Bum) Dl del Fonda
8 " " " " "
9

4530
1
2
3
4
5
6
7
8
9
4540
1
2
3
4
5
6
7
8
9
4550
1
2
3
4
5
6
7
8
9

4560
1
✓ 2 Piper vegetum Trel. type
✓ 3 Piper urophyllum var. brevipes Trel. type
✓ 4 Croton glabellus Sw.
✓ 5 Peperomia punctatifolia Trel.
✓ 6 Columnea purpurata Hanst. Unia
✓ 7 Sarcolaena rivularis P. & E. det. Standl. Rub
✓ 8 Piper quietum var. inquietum Trel.
✓ 9 Piper intercursans Trel. type
✓ 4570 Piper sagum Trel.
✓ 1 Lasiacis Standleyi Hitchc.
✓ 2 Piper otophorum C. DC.
✓ 3 Trichomanes Martinezii Rovirosa
✓ 4 Asplenium sp. Depauperate. Group of A. erectum Bory
✓ 5 Peperomia suspecta Trel. type
✓ 6 Trichomanes membranaceum L.
✓ 7 Polytaenium lineatum (Sw.) J. Sm.
✓ 8 Hipolazium subglaucum Christ aff.
✓ 9 Paspalum decumbens Sw.
✓ 4580 Panicum laxum Sw. depauperate. grass
✓ 1 Heisteria costaricensis W. Sm. ?
✓ 2 Norstenia choconiana var. integrifolia W. Sm.
✓ 3 Selaginella sp.
✓ 4 Selaginella sp.
✓ 5 Acalypha villosa Jacq.
✓ 6 Piper quietum Trel. type
✓ 7 Ruellia achimenifera (Oerst.) Hemsl.
✓ 8 ~~Rondeletia~~ Gonzalagunia ovatifolia (W. Sm.) Rob.
✓ 9 ~~Paticourea~~ Psychotria nima Standl. n. sp. type

✓ 4590		Ruellia tetrastichantha Lindau	Acanth
	✓ 1	Ocotea atirrensis Mez & D. Sm.	?
	✓ 2	Piper nemoricultrix Trel. type	
	✓ 3	Piper imparifolium Trel. type	
	✓ 4	Piper vegetum Trel.	
	✓ 5	Piper calcaratum C.DC.	
	✓ 6	Trichomanes polypodioides L.	
	7	Polypodium	Unid
	✓ 8	Piper obtusicuspe Trel. type	
	✓ 9	Symphonia globifera L.f.	Gutt
4600		Begonia	
	✓ 1	Cuphea epilobiifolia Kochne det. Foster	
	✓ 2	Eupatorium sideritidis Benth.	Comp
	✓ 3	Tristicha ~~hypnoides~~ stipata (Willd.) Spreng. det. P. van Royen (H.+B.f.) ~~Spreng.~~	
	✓ 4	Marathrum ~~Schiedeanum~~ diversifolium P. van Royen ~~(Cham.) Tul.~~ sp. nov.	
	✓ 5	Hyptis verticillata Jacq. det. Epling	Lab
	✓ 6	Peperomia philosophata Trel. type	
	✓ 7	Inga confusa B.+R.	
	✓ 8	Columnea linearis Oerst.	
	✓ 9	Sigmatostalix hymenantha Schlta.	Orch. Unid
✓ 4610		Arundinella Berteroniana (Schult.) H.+C.	Gram
	✓ 1	Selaginella sp.	
	✓ 2	Conostegia donnell-Smithii Wilddr.	
	✓ 3	Peperomia obsessa Trel. type	
	✓ 4	Peperomia concavicaulis Trel. type	
	✓ 5	Begonia glabra Aubl. det. Smith & Schubert	
	✓ 6	Panicum pulchellum Raddi	Gram
	✓ 7	Lexmania virgulta Klatt	Comp
	✓ 8	Tectaria rheosora (Baker) C. Chr.	
	✓ 9	Oplismenus hirtellus (L.) Beauv.	Gram

✓ 4620 Piper silvivagans Trel.
✓ 1 ~~Capsicum~~ Lycianthes heteroclita (Sendtn.) Bitt.
✓ 2 Stelis sp. Orchid
✓ 3 Ficus panamensis Standl.
✓ 4 Maxillaria uncata Lindl. Orchid
✓ 5 Polypodium sp. Sterile.
✓ 6 Polypodium ciliatum Willd.
✓ 7 Peperomia comans Trel. type
✓ 8 Piper occultum Trel.
✓ 9 Asplenium formosum Willd.
✓ 4630 Selaginella sp.
✓ 1 Lasiacis ruscifolia (H.B.K.) Hitchc.
✓ 2 Solanum salviifolium Lam.
✓ 3 Acalypha costaricensis (Kuntze) Knobl.
✓ 4 Sommera grandis (Bartl.) Standl.
✓ 5 Anthurium Pittieri Engl.?
6 Scleria
✓ 7 Polybotrya osmundacea H.B.K.
✓ 8 Eupatorium Pittieri Klatt Comp
✓ 9 Maxillaria Friedrichsthalii Rchb. f. Orch. Unic
✓ 4640 Miconia punctata (Desr.) D. Don Mel
1 Carludovica Unic
✓ 2 Manettia barbata Oerst.
3 Begonia
✓ 4 Centropogon nutans Pl. & Oerst.
✓ 5 Stelis sp. Orchid
✓ 6 Pharus parvifolius Nash Gram
✓ 7 Capsicum flavum Hunter n. sp. type
✓ 8 Besleria Wendlandiana Hanst. Gesn.
✓ 9 Lasiacis Standleyi Hitchc. Gram

✓ 4650	Besleria triflora (Oerst.), Hamst.		Umi
✓ 1	Bomarea chontalensis Seem.		
✓ 2	Justicia Tonduzii Lindau		Acanth
✓ 3	Lycopodium setaceum Lam.		
✓ 4	Marcgravia affinis Hemsl.		
✓ 5	Lasiacis sorghoidea (Desv.) H. + C.		Gram
✓ 6	Piper ledans Trel. type		
✓ 7	Piper scalpens var. pejivallense Trel. type		
✓ 8	Piper nemoricultrix var. bejucoanum Trel. type		Umi
✓ 9	Trichopilia maculata Rchb. f.		Orch Umi
✓ 4660	Xylosma turrialbanum Lo. Tm.		?
✓ 1	Sigmatostalix hymenantha Schltr.		Orchid
✓ 2	Lomariopsis vestita Fourn.		
✓ 3	Piper xanthostachyum C.DC.		
✓ 4	Lycopodium cuneifolium Hieron.		
✓ 5	Achyranthes aspera L.		
✓ 6	Ficus Oerstediana Mig.		
✓ 7	Trichomanes pyxidiferum L.		
✓ 8	Olmedia falcifolia Pitt.		?
✓ 9	Asplenium sp. Perhaps new.		
✓ 4670	Russelia sarmentosa Jacq.		
✓ 1	~~Ctenitopteris~~ Polytaenium brasiliánum (Desv.) ~~C. Chr.~~ Benedict		
2	[illegible]		
✓ 3	Adiantum Seemannii Hook.		
✓ 4	Olmedia falcifolia Pitt.		?
✓ 5	Trichomanes sphenoides Kunze?		
✓ 6	Piper peltaphyllum C.DC.		
✓ 7	Odontonema strictum (Nees) Kuntze "		Acanth
✓ 8	Blechnum fraxineum Willd.? Reduced pinn.		
✓ 9	Trichomanes pyxidiferum L.		

✓ 4680	Epidendrum cochleatum L.		Orchid
✓ 1	Asplenium laetum Sw. var.		
✓ 2	~~Asplenium~~ Diplazium cristatum (Desr.) Alston		
✓ 3	Eragrostis limbata Fourn.		Gram
✓ 4	Alsophila costaricensis Standl. ~~del. Hand.~~		Cyath
✓ ✓ 5	Alsophila " " var. elongata Manning type		?
6			?
✓ 7	Nectandra cimicata Mez		Laur
✓ 8	Chamaeanthemum Hernandii Lindau		Acanth
✓ 9	Selaginella arthritica Alston		
✓ 4690	Centradenia Maxoniana Gleason		Mel
✓ 1	Selaginella sp.		
✓ 2	Blechnum costaricense Desv.		Acanthus
✓ 3	Jacobinia macrantha (Benth.) Hemsl.		Acanth
✓ 4	Aphelandra tetragona (Vahl) Nees		
✓ 5	Inga spuria Willd.		Mimos
✓ 6	Parathesis serrulata (Sw.) Mez		
✓ 7	Paragonia pyramidata (Rich.) Bur.		Bign
✓ 8	Machaerium Seemannii Benth.		Leg
✓ 9	Senecio Hoffmannii Klatt		
✓ 4700	Croton glabellus Sw.		
✓ 1	Schultesia lisianthoides (Griseb.) B. & H. ~~Gent~~		
✓ 2	Alternanthera laguroides Standl.		
✓ 3	Anthurium scolopendrinum (Ham.) Kunth		
✓ 4	Smilax Englericana Apt		
✓ 5	Machaerium darienense Pitt.		
✓ 6	Eupatorium morifolium Mill.		Comp
✓ 7	Justicia metalica Lindau		Acanth
✓ 7½	" " "		Acanth
✓ 8	Piper caprea Trel. type		
✓ 9	Acalypha macrostachya Jacq.		

4710				?
✓	1	Ipomoea Nil (L.) Roth		Convo
✓	2	Acalypha diversifolia var. leptostachya	(Hook) Pax & Hoffm.	
✓	3	Dalbergia melanocardium Pitt.?		Leg
✓	4	Piper uncifer Trel. type		
✓	5	Panicum laxum Sw.		Gram
	6	Begonia		
✓	7	Piper occultum Trel. type		
✓	8	~~Heter~~ Tournefortia bicolor Sw.		
✓	9	Vismia guianensis (Aubl.) Pers.		
✓ 4720		Serjania mexicana Willd.		
✓	1	Machaerium marginatum Standl.		
✓	2	Tridax procumbens L.		Comp
✓	3	Tibouchina longifolia (Vahl) Baill.		Mel
✓	4	Peperomia verecunda Trel. type		
✓	5	Piper setosicaespes Trel. type		
✓	6	Eugenia sp.		?
✓	7	Jacobinia macrantha (Benth.) Hemsl.		Acanth
✓	8	Eupatorium vitalbae DC.		Comp
✓	9	Eupatorium elatum Steetz		Comp
✓ 4730		Liabum Bourgeauii (Hieron.)		Comp
✓	1	Miconia candata DC.		Mel
✓	2	Eschatogramme panamensis C. Chr.		
	3	Begonia		
✓	4	Hiplagium grandifolium Sw.		
✓	5	Hiplagium subglaucum Christ		
✓	6	~~Polypodium~~ Tectaria plantaginea (Jacq.) Maxon		
✓	7	Banisteriopsis cornifolia var. elliptica (Hdsn.)		
✓	8	Ocotea cernua (Nees) Mez?		Laur
✓	9	Mandevilla hirsuta (Rich.) K. Sch.		Apoc

4740
✓ 1 Tournefortia hirsutissima L. Cyp
✓ 2 Trixis divaricata (L.) Spreng. Comp
✓ 3 Scutellaria (Alisinosae) sp. det. Epling
✓ 4 Maripa nicaraguensis Hemsl.
5
6 Cyperus
✓ 7 ~~Rondeletia~~ Bongardiana exaltata Standl. Type
✓ 8 Hamelia magnifolia Wernh.
✓ 9 Anthurium acutifolium Engl.
✓ 4750 Justicia Oerstedii Lemand Acanth
✓ 1 Piper subungulatum Trel. Type
✓ 2 Pleuropetalum ~~Calocephalum~~ Kleinianum (Kuntze) Standl. Aman
✓ 3 Anthurium Schlechtendalii Kunth Arac
✓ 4 Canna edulis Ker
✓ 5 Hidalgoa ternata Leave & Lex. Comp
✓ 6 Jasminum pubescens (Retz.) Willd.
✓ 7 Nectandra glabrescens Benth.? Laur
✓ 8 ~~Piper~~ Calatola costaricensis Standl. det. Standl.
✓ 9 Toxicophoenix pycnotrichia Oerst. Gutt
✓ 4760 Piper sublineatum Kuntze
✓ 1 Heliconia acuminata L. Rich.
✓ 2 Sarcoglossa picta (Andersn.) Kl. ? Orch
✓ 3 Psychotria marginata Sw.
✓ 4 Psychotria brachiata Sw.
5 Ficus involuta (Liebm.) Miq.
✓ 6 Dryopteris excelsa var. guatemalensis (Baker) C. Chr.
✓ 7 Gurania Seemannii Cogn. Cuc
✓ 8 Solanum salviifolium Lam.
✓ 9 Cordia polycephala (Lam.) Johnst. ?

4770 Acalea cornea (Rees) Mag Lycaenic sp. det Allen Lawr
1 Blechnum fraxineum Willd.
2 Spigelia Humboldtiana C. & S.
3 Blechnum fraxineum Willd. sens. ect.
4 Piper venulosissimum Trel. form
5 Schnanthus tenuis (Prod) H. & C. Gram
6 Asplenium fragrans var. foeniculaceum (Hook) Jenm.
7 Stomandra costaricensis Standl. n. gen. type Rub.
8 Peperomia credenda Trel. type
9 Asplenium abscissum Willd.
4780 Columnea ornata Morton n. sp. Type
1 Trichomanes superatum (Raddi) v. d. B.
2 Columnea hirta Kl. & Hanst.
3 Sonnera
4 Spigelia Humboldtiana C. & S.
5 Pelexia subaequalis Ames. New to Costa Rica Orch. Gen
6 Piper absolutum Trel. type
7 Piper sublineatum Kunth
8 Tovomitopsis glauca Oerst. Gutt
9 Hymenophyllum aspidioides (Willd., C. Chr.
4790 Asplenium laetum Sw.
1 Topobea Heurckiana Cogn. Mel
2 Piper venulosissimum Trel. type
3 Villarsia costaricensis O. Kun. ?
4 Siparuna nicaraguensis Hemsl.
5 Mollinedia discrepans Morton mss.
6 Piper sphaerocarpum Trel. type
7 Carica papaya L.
8 Columnea affinis Morton mss. Gesn Gen
9 Polypodium cultratum Willd. ?

✓ 400	0	Tabernaemontana longipes D.Sm.	Apoc
✓	1	Erythrodes lunifera (Schltr.) Ames	Orch's
✓	2	Piper otophorum C.DC.	
✓	3	Elaterium pauciflorum Cogn.	Cuc
✓	4	Dilpleazium Lindbergii Christ aff.	
✓	5	Phyllanthus Pittieri Pax	
✓	6	Trizeuxis falcata Lindl.	Orchid
✓	7	Peperomia fraciscana Trel. Type	
✓	8	Clidemia hirta (L.) D. Don	Mel
✓	9	Jacobinia tinctoria (Oerst.) Hemsl.	Acanth
✓ 400	10	Hirtella americana L. (syn. mollicoma)	
✓	1	Serjania atrolineata ~~Sauv.~~ Sauv. & Wright	
✓ ✓	2	Persea ~~coerulea (R. & P.) Mez~~ Skutchii Allen Type	
✓	3	Roupala complicata H.B.K.	
✓	4	~~Odontoglossum~~ Epidendrum ionophlebium Rchb. f.	
✓	5	Zinowiewia costaricensis Lundell	
✓	6	Panicum. Perhaps n. sp. Mrs. Chase would like to ~~have~~ have additional collections including roots.	
✓	7	Heliocarpus dentatus (Aubl.) Standl.	?
✓	8	Casearia sylvestris Sw.	?
✓	9	~~Cactus~~ Hieronyma oblonga (Tul.) Muell. Arg.	
✓ 400	20	Belotia macrantha Sprague	
✓	1	Sapium jamaicense Sw. ?	Euph
✓	2	Trichilia oaxacana Blake	?
✓ ✓	3	Inga n. sp. ? skutchii Standl. & Steg. Type	
✓	4	Monstera pertusa (L.) de Vriese	Arac
✓	5	Enallagma latifolia (Mill.) Fawc. & Rend.	?
✓	6	Jussiaea suffruticosa var. octofida (DC.) Munz ined.	
✓	7	Machaerium acanthothyrsum Pitt.	
✓	8	Piptocarpha chontalensis Baker	Comp
	9	Vismia guianensis (Aubl.) Pers.	

4830 Securidaca
✓ 1 Erythroxylum costaricense Micheli. det. Krukoff.
✓ 2 Trichilia oaxacana Blake ?
✓ 3 Miconia impetiolaris (Sw.) D.C. Mel
✓ 4 Jacquemontia ciliata Sandw. Convol
✓ 5 Athyrocarpus persicariifolius (D.C.) Hemsl. Convol
✓ 6 Hasseltia floribunda H.B.K. Flac
✓ 7 Marcgravia guatemalensis Standl.
✓ 8 Ipomoea Purpusii House
✓ 9 Fischeria Martiana Hens.? det. Fosberg Asc
✓ 4840 Cissus brevipes Morton & Standl.
✓ 1 Piper valliculae var. pubinerve Trel. type
✓ 2 Urera alceifolia Gaud. ?
✓ 3 Conostegia sp. Mel
✓ 4 Hernandia sonora L. ?
5
✓ 6 Elaphoglossum proliferans Maxon & Morton Dryst
✓ 7 Erythroxylon ~~amplum Benth.~~ Skutchii Standl. type ?
✓ 8 Pisonia aculeata L. ?
✓ 9 ~~Rinorea~~ Protium costaricense (Rose) Engl.
✓ 4851 Dipterodendron elegans Radlk. ?
✓ 1 Quararibea platyphylla Pitt. & D. fm. ?
✓ 2 Urera alceifolia Gaud. Urt
✓ 3 Anisomeris hirsuta (L.) H. & M.
✓ 4 Napeanthus apodemus D. fm.
✓ 5 Piper saginatispicum Trel. type
6 Piper lentiginifolium Trel. type
✓ 7 Trichomanes membranaceum L.
✓ 8 Anthurium microspadix Schott
✓ 9 Peperomia perspicua Trel. type

✓	4&60	Scutellaria glabra Leonard. del. Epling		
✓	1	Psychotria Berteriana DC.		
✓	2	Solanum suaveolens Kunth + Bouché var.		
✓	3	Tovaria pendula R. + P.	Tovaria?	
	4	Begonia		
✓	5	Guazuma ulmifolia Lam.	Sterc	
✓	6	Zanthoxylum elephantiasis Macfad.	?	
✓	7	Miconia Schlimii Triana	Mel	
✓	8	Dalbergia melanocardium Pitt.?	Leg	
	9	Securidaca		
✓	40	Casearia javitensis HBK.		
✓	1	Neea psychotrioides D. Sm.	?	
✓	2	Bignonia unguis-cati L.	Bign	
✓	3	Myrcia costaricensis Berg	Myrt	
✓	4	Trichilia montana HBK.	Sap?	
✓	5	Pleonotoma variabile (Jacq.) Miers	Bign	
✓	6	Dipteradenia elegans Radlk.	?	
✓	7	Xylopia frutescens Aubl.		
✓	8	Clusia uvitana Pitt.		
✓	9	Struthanthus polystachyus (R. & P.) Blume	Lor	
✓	50	Bacopa procumbens (Mill.) Greenm.	Scroph	
✓	1	Tetrathylacium costaricense Standl.		
✓	2	Stemmadenia Donnell-Smithii (Rose) Woods. Standl.	Apoc	
✓	3	Cornutia grandifolia var. normalis (Ktze) Moldenke det Moldenke		
✓	4	Symplocos costaricana Hemsl.		
✓	5	Paragonia pyramidata (Rich.) Bur.	Bign	
✓	6	Acnistus arborescens (L.) Schl.		
	7	Solanum rugosum Dunal		
	8		?	
✓	9	Miconia pteropoda Benth.	Mel	

✓ 489 0 Ponzolzia obliqua (Poepp.) Wedd. Ant.
1 ? Ascl
✓ 2 Bomarea chontalensis Sem. Linn
✓ 3 Clidemia serratiflora var. angustifolia Cogn. Mel
✓ 4 Blakea gracilis Hemsl. Mel
✓ 5 Dryopteris submarginalis (L. + T.) C. Chr.
✓ 6 Heisteria macrophylla Oerst. Ascl ?
✓ 7 Randia subcordata Standl. Rub
✓ 8 Clusia rosea L.
✓ 9 Terminalia obovata (R. & P.) Steud.
✓ 490 0 Swartzia ochnacea (DC.) Britt.
✓ 1 Lycianthes synanthera (Sendtn.) Bitt.
✓ 2 Dicranopteris pectinata (Willd.) Underw.
✓ 3 Acalypha diversifolia var. comptonii (P. & E.) Müll. Arg.
4 Hamelia
✓ 5 Nectandra sp. not matched. Laur
✓ 6 Ponzolzia occidentalis (Liebm.) Wedd. Urt
✓ 7 Hymenocallis littoralis (Jacq.) Salisb. Linn
✓ 8 Desmodium axillare var. genuinum Urban det. Schubert
✓ 9 Desmodium canum (Gmel.) Sching & Thell. det. Schubert
✓ 491 0 ~~Hapanthus~~ Alloplectus concanguinea Standley ined.
✓ 1 ~~Homalium~~ Hasseltia ~~sp.~~? macrolecantha Sl. & Urb. n. sp.
✓ 2 Lindsaea lancea (L.) Bedd. var.
✓ 3 Fischeria Martiana Hemsl.? det. Foster Ascl
✓ 4 Polygala paniculata L.
✓ 5 Erythroxylon lucidum H.B.K. ?
✓ 6 Sonchus Erechtites hieracifolia (L.) Raf.
7 ?
✓ 8 Ophioglossum ellipticum H. & G.
✓ 9 Hyptis verticillata Jacq. det. Epling Lab

✓ 492	0	Clidemia dentata D. Don	Mel
✓	1	Tragia volubilis L. var.?	Euph
✓	2	Jonopsis utricularioides (Sw.) Rchb. f.	Orch unc
✓	3	Eupatorium macrophyllum L.	Comp
✓	4	Miconia laevigata (L.) DC.	Mel
✓	5	Randia armata (Sw.) DC.	Rub
✓	6	~~Lindenia~~ Posoqueria latifolia (Rudge) R. & S.	
✓	7	Epiphyllum cartagense (Weber) B. & R.	Cact
✓	8	Cymbopetalum costaricense (D. Dun.) Fries	
✓	9	Lygodium radiatum Prantl	
✓ 493	0	Lantana grosseserrata Moldenke. det Moldenke	
✓	1	Pyper albocicatricosum Trel. type	
✓	2	Sapium jamaicense Sw.	Euph
✓	3	Dioclea reflexa Hook. f. var.?	Legum.
✓	4	~~Croton~~ Alchornea costaricensis Pax & Hoffm.	
✓	5	Hoffmannia Tonduzii Standl.	
✓	6	Hybanthus n. sp.?	
	7		?
✓	8	Gonolobus Shutchii Foster n. sp. type	Asc
✓	9	Scutellaria costaricana Wendl. det. Epling	
✓ 494	0	Enallagma latifolia (Willd.) Small	Rubi
✓	1	Conostegia sp.	Mel
✓	2	Printhocephalus Tonduzii Schltr.	Orch unc
✓	3	Lepicaulon Solanum Brenesii Lourteig & Standl.	
✓	4	Cissampelos tropaeolifolia DC.?	
✓	5	Adrymonia allophylectroides Hamet.	
✓	6	~~Too young for identification~~ Componeura excelsa A.C. Smith det Smith	
✓	7	Besleria laxiflora Benth.	
✓	8	Ossaea aff. divaricata	Mel
✓	9	Psychotria grandis Sw.	?

495	0	Chiococca alba (L.) Hitchc.	
✓	1	~~Bestéria~~ Tussacia Friedrichsthaliana Hemsl.	
✓	2	Topobea sp.	Mell
✓	3	Heteropteris laurifolia (L.) Juss.	
✓	4	Machaerium darienense Pitt.	Lep
✓	5	Lundia corymbifera (Vahl) Sandw.	Bip
✓	6	Banara guianensis Aubl.	!
✓	7	Polygala brizoides St. Hil. Hil.	
✓	8	Enterosora spongiosa Maxon	
	9		
496	0		
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
497	0		
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		

4580
1
2
3
4
5
6
7
8
9
4590
1
2
3
4
5
6
7
8
9
5000
1
2
3
4
5
6
7
8
9

5010
1
2
3
4
5
6
7
8
9

5020
Redman 48
✓1 Vantanea barbourii Standl. det. A. C. Smith
✓2 Celastraceae ? not recognized, perhaps Rhacoma or Mygindia. det. A. C. Smith
✓3 Erythroxylon lucidum H.B.K. det. Rudd
✓4 Protium costaricense (Rose) Engl.
✓5 Ardisia glanduloso-marginata Oerst. ?
✓6 Protium multiramiflorum Lundell ex descr. new to Costa Rica
7
8 see p 159
9

5030
1
2
3
4
5
6
7
8
9

5040
1
2
3
4
5
6
7
8
9
5050
1
2
3
4
5
6
7
8
9
5060
1
2
3
4
5
6
7
8
9

100 Matuda

1 Pithecolobium lanceolatum (H.B.K.) Benth. det. Lundell
2 (same as 1 here)
3
4
5 (same as 1 here)
6
7 Tribulus cistoides L. det. Lundell
8
9
10
11 Cassia leiophylla Vogel det Lundell
12
13
14
15 Gliricidia sepium (Jacq.) Steud. det. Lundell
16
17 Tephrosia toxicaria (Sw.) Pers. det. Lundell
18 Caesalpinia
19 Cassia
20 Bronqniartia magnibracteata Schl. ex clum. det. Lundell
1 Mimosa albida H.B.K. det. Lundell
2 Inga edulis Mart. det. Lundell
3 Cassia rufa M.+G. det. Lundell
4 (same as 1 here)
5 Pithecolobium parkynsa Brit. det. Lundell
6
7 Cassia rufa M.+G. det. Lundell
8 Cassia
9 Cassia oxyphylla Kunth det. Lundell
30 Calliandra tetragona (W.) Bth det Lundell

Evolvulus alsinoides L. var.

Cassia Skinneri Benth. det. Lundell
Pithecolobium

Kallstroemia maxima (L.) T.+G. det. Lundell
Cassia leptocarpa Benth. det. Lundell
Diphysa robinioides Benth. det. Lundell

Mimosa pigra L. det. Lundell

Inga laurina (Sw.) W.? det. Lundell
Bauhinia Standleyi Rose det. Lundell
Cassia reticulata W. det. Lundell

Mimosa albida H.B. det. Lundell
Bauhinia unguiculata L. det. Lundell

6 1
✓ 2 Polygala floribunda Benth.
3
✓ 4 Calliandra confusa Sprague & Riley det. Lundell
5
✓ 6 Bauhinia Standleyi Rose det. Lundell
7
Uni al Hr
✓ 8 Cassia biflora L. det. Lundell "
✓ 9
Uni al Hr
70
1 Machaerium reparium Brandeg.? det. Lundell
2
3
4 Uni al Hr
5 " "
6 Unicata al Hr
7
8
9
✓ 80 Anoda cristata (L.) Schl.
✓ 1 Wissadula excelsa (Cav.) Presl
✓ 2 Pavonia sp. "
✓ 3 Malvaviscus grandiflorus H.B.K. det. Lundell
✓ 4 Neobrittonia acerifolia (Lag.) ~~Hochst~~ Hochr. Nueva Chiapas.
✓ 5 Abutilon Purpusii Standl.
✓ 6 Robinsonella edentula Rose & O. Sm. Nueva Mexico.
✓ 7 Abutilon Hemsleyanum Rose
✓ 8 Pseudabutilon spicatum (H.B.K.) Fries
9
✓ 90 Pavonia sp.

91
2 Sida salviaefolia Presl
3 Sida condefolia L.
4 Gayoides crispum (L.) Small
5 Malvaviscus populifolia Presl
6 Sida rhombifolia L.
7 Triumfetta lappula L.
8 Sida decumbens St. Hil. & Nand. new to Chiapas
9 ~~Pavonia sp.~~ Triumfetta dumetorum Schl.
100 Malva parviflora L.
1 Hibiscus bifurcatus Cav.
2 Luehea candida (DC.) Mart. det. Lundell
3 Pilea n. sp.
4 Phenax hirtus (Sw.) Wedd. Reported as Parietaria cymosa (Lam.) Hook. det. Lundell
5 Pilea pubescens Liebm.
6 Diodia sarmentosa Sw. det. Standl.
7 Luehea speciosa W. det. Lundell
8 Ficus
9 Ficus cotinifolia H.B.K. det. Lundell
110
1 Phenax hirtus (Sw.) Wedd.
2
3 Boehmeria candata Sw.
4
5 Urera caracasana (Jacq.) Griseb. var. or n. sp.
6
7 Urera caracasana (Jacq.) Griseb.
8 Phenax mexicanus Wedd.
9 Phenax hirtus var. minor Wedd.
120 Tetrorchidium rotundatum Standl. det. Lundell

121 (Line at bottom

2

✓ 3 Ruellia sp. Probably new.

✓ 4 Ruellia megasphaera Lindau

✓ 5 Salvia lavandulaoides Kunth det Epling

✓ 6 Aphelandra Schiedeana C. & S.

✓ 7 Lobelia laxiflora H.B.K. sens lat.

✓ 8 Sanchezia parvibracteata Sprague & Hutch.

9

130

✓ 1 Hemichlaena fruticosa Benth.

✓ 2 Gonzalagunia panamensis (Cav.) Schum. det. Standl.

✓ 3 Henrya sp.

✓ 4 Salvia ionocalyx Epl. nov type

✓ 5 Bouvardia geminiflora Cav.

6

✓ 7 Browallia americana L.

✓ 8 Salvia Matudae Epl. nov type

✓ 9 Petiveria alliacea L. det. Lundell

✓ 140 Cuphea polyantha Rth. det. Lundell

✓ 1 Hyptis urticoides Kunth det. Epling

✓ 2 Salvia Xalapensis Rth det Epling

✓ 3 Castilleia communis Benth.

4

✓ 5 Salvia Karwinskii Rth det. Epling

✓ 6 Stachys agraria C. & S. det. Epling

7

8

9

✓ 150 Achimenes grandiflora (Schiede) DC.

151 Aphelandra Kerppeana C. VS.

158 Ruellia sp. Probably new.
159 Barleria micans Nees

160

161 Jacobinia aurea Hemsl.
162 Loeselia glandulosa (Cav.) Don

163 Bouchea Nelsonii Greene.

164 Mixture! Kohleria spicata (H.B.K.) Hamst. & K. Kerppeana (C. VS.) Fritsch

169 Mixture! Kohleria spicata (H.B.K.) Hamst. & Kohleria n. sp. ?

170

186 ter. Mixture of Polypodium plebeium C. & S. and Asplenium auritum Sw.

181
2
✓ 3 Diplazium denticulosum Desv. ?
✓ 4 Adiantum pulverulentum L.
✓ 5 Trichomanes radicans Sw.
✓ 6
✓ 186 Asplenium Standleyi Maxon
✓ 7 Polypodium " sp. Xalapense (Fée) Christ
✓ 8 Blechnum fraxineum Willd. sens lat.
✓ 9 Dryopteris panamensis (Prsl) C. Chr.
✓ 190 Adiantum trapeziforme L.
✓ 1 Polypodium plebeium C. & S.
✓ 2 Polypodium angustum (H. & B.) Liebm.
✓ 3 Phanerophlebia remotispora Fourn.
✓ 4 Dryopteris palmata (Willd.) J. Sm.
✓ 5 Hemionitis palmata L.
✓ 6 Blechnum occidentale L.
7 Notholaena bonariensis (Willd.) C. Chr.
✓ 197 bis Notholaena sinuata (Lag.) Kaulf.
✓ 8 Pellaea ovata (Desv.) Weatherby
✓ 9 Dryopteris patens (Sw.) Kuntze
✓ 200 Pteris quadriaurita Retz.
✓ 1 Adiantum concinnum H. & B.
✓ 2 Polypodium phyllitidis L.
✓ 3 Aneimia phyllitidis (L.) Sw.
✓ 4 Polypodium plesiosorum Kunze
✓ 204 bis " aureum L.
✓ 5 Notholaena affinis (Mett.) Hook.
✓ 6 Pityrogramma calomelanos (L.) Link
✓ 7 Polypodium serpentinum Christ
✓ 8 Polypodium angustifolium Sw.
✓ 9 Polypodium plumula H. & B.
✓ 209 bis Polypodium furfuraceum C. & S.
✓ 210 " cryptocarpon Fée
✓ 211 Polypodium astrolepis Liebm.

218 bis Adiantum Poiretii Wikstr.

211 Cheilanthes intramarginalis (Kaulf) Hook.
2 Polypodium angustifolium Sw. var.
3 Asplenium resiliens Kunze
4 Scolioscorus enciformis (Hook.) Moore
5 Vittaria filifolia Fée
6 Tectaria heracleifolia (Willd.) Underw.
7 Pityrogramma calomelanos (L.) Link
8 Adiantum andicola Liebm.
9 Asplenium uniseriale Raddi
220 Leptochilus cladorrhizans (Sprengl.) Hook
1 Asplenium riparium Liebm.
2 Diplazium plantaginifolium (L.) C. Chr.
3 Odontosoria Schlechtendalii (Prest) C. Chr.
4 Adiantum andicola Liebm.
5 Lycopodium ~~setaceum Lam~~ Pringlei Underw. + Lloyd
6 Selaginella Martensii Spring
7 Selaginella cuspidata var. elongata Spring
8 Selaginella Martensii Spring
9 Selaginella pilifera A. Br.
230 Selaginella cuspidata Link
1 Selaginella
2 Blechnum occidentale L. var.
3 Pteris muricella Fée
4 Tectaria martinicensis (Spreng.) Copel.
5
6
7
8 Solanum elaeagnifolium Cav.
9 Physalis mollis Nutt.
240 " gracilis Miers

241 Solanum dasyanthum Brand. ex char. Probably 1st coll. since type
2 Saracha procumbens (Cav.) R. & P.
3 Solanum Hartwegi Benth.
4 Cordia appendiculata Greenm.
5 Solanum verbascifolium L.
6 Mixture! Datura fastuosa L. + Datura innoxia Mill.
7
8 Nicandra Physaloides (L.) Pers.
9 Solanum hispidum Pers.
250 Physalis n. sp.?
1 Solanum verbascifolium L.
2 Solanum nudum H.+B.K.
3 " laurifolium Mill.
4 Physalis n. sp.?
5 Solanum (Lycianthes) quichense Conet. & Standl.
6 Saracha procumbens (Cav.) R. & P. (syn. S. jaltomata)
7 Solanum nigrum L. var.
8 " oaxacanum Dunal
9 Solanum ~~citrullus~~ Lam.
260 Browallia americana L.
1 Physalis ixocarpa Brot.
2 Solanum umbellatum Mill.
3
4
5
6
7
8
9
270

Equisetum giganteum L.

Cyperus densicaespitosus Mattf. & Kük.
Cyperus surinamensis Rottb.

301 Cyperus diffusus var. Toluccensis (H.B.K.) Kük.

2

3 Cyperus regiomontanus Britt.

4

5 Cyperus simplex H.B.K.

6

7

8

9

310

✓ 1 Hilaria cenchroides H.B.K.

✓ 2 Poa annua L.

✓ 3 Muhlenbergia repens (Presl) Hitche.

✓ 4 Stipa ichu (R.&P.) Kunth

✓ 5 Eragrostis ciliaris (L.) R.Br.

✓ 6 Panicum biglandulare Scribn. & Smith

✓ 7 Bromus laciniatus Beal

✓ 8 Paspalum candidum H.B.K.

✓ 9 Muhlenbergia Emersleyi Vasey

✓ 320 Arundinella deppeana Nees

✓ 1 Chusquea sp.

✓ 2 Muhlenbergia Emersleyi Vasey

✓ 3 Setaria Liebmanni (Fourn.) ~~Fourn.~~ Scribn. & Merr.

✓ 4 Cathestecum stoloniferum (Fourn.) Griffiths

✓ 5 Lasiacis sorghoidea (Desv.) Hitche. & Chase

✓ 6 Panicum fasciculatum Sw.

✓ 7 Coix lacryma-jobi L.

✓ 8 Bouteloua filiformis (Fourn.) Griffiths

✓ 9 Echinochloa colonum (L.) Link

✓ 330 Andropogon glomeratus (Walt.) B.S.P.

331 Lasiacis procerrima (Hack.) Hitchc.
Panicum fondescens (Presl)
Lasiacis procerrima (Hack.) Hitchc.
Trichloraena repens (Willd.) Hitchc.

336 Paspalum fasciculatum Willd.
Paspalum virgatum L.
Panicum boliviense Hack.
Digitaria sanguinalis (L.) Scop.
Paspalum paniculatum L.
340 Cenchrus echinatus L.
Olyra latifolia L.
Bouteloua hirticulmis Scribn.
Setaria scandens Schrad.

Smilax velutina Killip & Morton. Second coll. from Mexico
" aristolochiaefolia Mill. New to Chiapas.

Smilax aristolochiaefolia Mill.
" velutina Killip & Morton
Smilax Purpusii Brandeg. The second known coll.
" " "

36 1
2
3
4
5
6
7
8
9
37 0
1
✓ 2 Bomarea glaucescens Wedd.
3
4
5
6
7
8
9
38 0
✓ 1 Smilax velutina Killip & Morton
2
3
4
✓ 5 Hasseltia guatemalensis Warb. good!
6
7
8
✓ 9 Buettneria catalpifolia Jacq.
39 0

Clethra Matudai Lundell, n. sp. type

Viburnum optatum var. vagum Morton

Banisteria Beecheyana (H.+A.) C. B. Rob.

Coccoloba escuintlensis Lundell n. sp. type

Plocaniophyllon flavum Brandg. - good

42 Monotropa corcinea Zucc.

43 Bejaria laevis Benth.
Viburnum blandum Morton
Solanum brachystachys Dunal

Tetrapteris discolor (G. F. W. Mey.) DC. New to Mexico.

Verbesina turbacensis H.B.K.

44

Cobaea pachysepala Standl. New to Mexico.

45

✓ 45 1 Cestrum yucatanense Francey ? ex char.
✓ x 2 Clethra parvifolia Lundell, n. sp. type

1 6 5 4 3 2 1 7

✓ 8 Solanum brachystachys Dunal

9
#6 0
1
2
3
4

✓ 5 Solanum nudum HBK.

6

✓ 7 Styrax polyneurus Perk.

8
9
#7 0
1
2
3
4
5
6
7 Prosopis sp.
✓ 8 Maxcagnia malpighioides (Turcz.) Burton
9
#8 0

48 1
2
3
4
✓ 5 Melochia Bernoulliana O. Ktze.
6
7
✓ 8 Triumfetta mexicana Turcz.?
✓ 9 Tetrapteris discolor (G.F.W. Mey.) DC.
49 0
1
2
3
4
5
✓ 6 Cestrum terminale Francey
✓ 7 " Warscewiczii var. macrocalyx (Francey) Nicht. Chicap
8
5 9
50 0
1
2
3
4
5
6
7
8
✓ 9 Zinnia multiflora L.
51 0

V 51 1 Bunchosia lanceolata Turcz.

1 2 3 4 5 6 7 8 9

V x 52 0 Clethra glaberrima Lundell, n. sp. type

1 2

V 53 3 Chyllanthus Purpusii Brandg. Good!

4 5 6 7 8 9

V 53 0 Solanum oaxacanum Dunal

1 " verbascifolium L.

2 3 4 5 6 7 8 9

54 0

54 1
2
3 Abutilon amplexifolium (L.) Sweet. "
4 "
5
6
7
8 Cyrtandra sp.
9
55 0
1
✓ 2 Martynia annua L.
3
4
✓ 5 Erodium cicutarium (L.) L'Her.
6
✓ 7 Synedrella nodiflora (L.) Gaertn.
✓ 8 Justicia comata Lam.
9
✓ 56 0 Pogonopus speciosus (Jacq.) Schum. Good
1
2
3
4
5
6
✓ 7 Bunchosia lanceolata Turcz.
✓ 8 Styrax polyneurus Perk.
9
57 0

x 57 1 Sideroxylon Matudai Lundell, n. sp. type
2 Clerodendron Matudae St. Type

8 Solanum diphyllum L.

57 7 Cytinus americanus R. Br.

57 3 Valeriana mikaniae Lindl.
4 Buddleia parviflora H.B.K.

8 Baniseriopsis argentea (H.B.K.) C.B. Rob.

120

✓ Waltheria glomerata Presl

Tetrapteris Schiedeana C. & S.

✓ Buddleia perfoliata H.B.K.

✓ Sphaeralcea angustifolia Cav.

✓ Nautilocalyx inclinatus (Brand.) Morton (Episcia inclinata)
(1st coll. since type.

Tragoceros flaviconum DC.

Eugenia Matudai Lundell, n. sp. type

Cestrum glandulíferum Francey

Cestrum lanatum M. & G.

66

Byrsonima crassifolia (L.) H.B.K.

67 Solanum Wendlandi Hoote.

68 Dichapetalum chiapasense Standl. type

69 Mixture! Plantago floccosa Decne. mm to Chiapas and Plantago hirtella H.B.K.

69

1
2
3
4
5
6
7
× 8 Podocarpus Matudai Lundell n. sp. type
9
70 0 Archibaccharis Standleyi var. aequivenia Blake
1 Eupatorium Pittieri Klatt
2 Eupatoriastrum oxyadoclinium Blake n. sp. type
3 Graphalium oxyphyllum var. semilanatum DC.
4 Bidens squarrosa H.B.K.
5 Vernonia Lleppeana Less.
6 Archibaccharis sescenticeps Blake
7 Ageratum rugosum Coult.
8 Hymenostephium cordatum (H.B.K.) Blake
9 Schistocarpha Kellermanii Rydb.
71 0 Rumfordia media Blake, n. sp. type
1 Archibaccharis flexilis Blake. New to Mexico.
2 Gnaphalium attenuatum DC.
3 Senecio cobanensis Coult.
4 Baccharis glutinosa Pers.
5 Melanthera nivea (L.) Small
6 Verbesina crocea (Cav.) Less.
7 Ageratum rugosum Coult.
8 Verbesina punctata Rob. & Greenm. New to Mexico.
9 Rensonia salvadorica Blake. New to Mexico.
72 0 Tetrapterys discolor var. lanuginosa Nees?

✓ 72 1 Eupatorium sp.
✓ 1 2 Baccharis vaccinioides HBK.
✓ 2 3 Montanoa hibiscifolia Benth.
✓ 3 4 Eupatorium macrophyllum L.
✓ 4 5 Baccharis glutinosa Pers.
✓ 5 6 Eupatorium angulifolium Rob. New to Mexico.
✓ 6 7 Eupatorium Schultzii Schnittspahn
✓ 7 8 Spilanthes oppositifolia (Lam.) A. H. Moore
✓ 8 9 Senecio kermesinus Hemsl.
✓ 9 10 Vernonia polypleura Blake, n. sp. type
1
2
3
4
5
6
7
8
9
74 0
1
2
3
4
5
6
7
8
9
750

Martinez - Calderon

acc. 157125

1	Not received.		
2	"		
3	"		
4	"		
5	"		
6	"		
✓ 7	Tabernaemontana alba Mill.		Spec.
✓ 8	Passiflora serratifolia L.		
✓ 9	Cydista potosina (K. Schum. & Loes.) Loes.		Bign.
✓ 10	Ipomoea cathartica Poir.		
✓ 11	Poinciana regia Boj.		Caes.
12	Not received.		
✓ 13	Bauhinia divaricata L.		
✓ 14	Hamelia nodosa M. & S.		
✓ 15	Cornutia grandifolia (C. & S.) Schauer		Verb.
✓ 16	Parathesis serrulata (Sw.) Mez		Myrs.
✓ 17	Dichapetalum Donnell-Smithii Engler		Trigo.
✓ 18	Alibertia edulis A. Rich.		Rub.
✓ 19	Ardisia compressa HBK. var.?		
20	Not received.		
✓ 21	Petiveria alliacea L.		
✓ 22	Croton schiman C. & S.		
23	Desmodium axillare var. genuinum Urban det. Schubert		
✓ 24	Coussarea sp.?		Rub.
✓ 25	Urera caracasana (Jacq.) Griseb. form.		Urt.
✓ 26	Solanum nudum HBK.		
✓ 27	Croton cf. Billbergianus Muell. Arg.		Spec.
✓ 28	Urechites Andrieuxii Muell.-Arg.		Spec.
✓ 29	Chiococca alba (L.) Hitchc.		

✓	30	Psychotria erythrocarpa Schl.	Rub.
	1	Not received.	
	2	"	
	3	"	
✓	4	Columnnea Schiedeana Schlecht.	
✓	5	Psychotria microdon (DC.) Urb. (syn. P. pinularis)	Rub.
✓	6	Faramea occidentalis (L.) Rich.	Rub.
	7	Not received.	
✓	8	Maranta arundinacea L.	
	9	Not received.	
✓	40	Cissus sicyoides HBK.	
✓	1	Cipura paludosa Aubl.	Irid
✓	2	Zornia diphylla (L.) Pers.	
✓	3	Scleria pterota Presl ~~var. Cav.~~	Cyp.
✓	4	Bunchosia lanceolata Turcz.	
✓	5	Olyra latifolia L.	Gram.
✓	6	Paragonia pyramidata (L.C. Rich.) Bur. Near to Mexico.	Bign.
✓	7	Cardiospermum halicacabum L.	
	8	Not received.	
✓	9	Nectandra Heydeana Meg. & Lo. tm. Near to Mexico.	Laur.
✓	50	Dryonoma aff. spectabilis (HBK.) Mart.	
	1	Not received	
✓	2	Piper multinervium var. Calderonii Trel. n. var. type	Piper.
✓	3	Myrcia Oerstediana Berg ex chan.	Myrt.
✓	4	Dorstenia contrajerva L.	
✓	5	Zanthoxylum melanostictum ~~Sc.~~ Sc. & S.	!
✓	6	Panicum hirticaule Presl	gram.
✓	7	Prestonia mexicana A. DC.	Apoc.
✓	8	Renealmia jalapensis Gagnep.	
	9	Not received.	

6	0	Panicum fasciculatum Sw.	Gram.
	1	Apeiba Tibourbou Aubl.	?
	2	Swetia panamensis Benth.	?
	3	Ardisia compressa H.B.K.	Myrs.
	4	Chaptalia nutans (L.) Polak.	
	5	Pithecellobium arboreum (L.) Urban	Mim
	6	Cyperus sp. Too young acc. to O'Neill.	
	7	Canna indica L.	
	8	Not received	
	9	"	
7	0	Costus spicatus (Jacq.) Sw.	
	1	Not received	
	2	"	
	3	Guazuma ulmifolia Lam.	
	4	Aristolochia grandiflora Sw.	
	5	Urera caracasana (Jacq.) Griseb. form	Urt.
	6	Pourtiderea lanceolata Ruiz.	
	7	~~Cnidoscolus~~ Jatropha dentzioflora Croiz. Type	
	8	Not received	
	9	Canna indica L. var.?	
8	0	Casearia nitida (L.) Jacq.	?
	1	Combretum farinosum H.B.K.	Comb.
	2	Ipomoea tiliacides (Lam.) Griseb.	Conv.
	3	Not received	
	4	"	
	5	Vitis Berlandieri Planch.	
	6	Paullinia pinnata L.	Sap.
	7	Paliconrea guianensis Aubl. New to Mexico.	Rub
	8	Citharexylum hexangulare Greenm. Hab Valdivia - Loch	
	9	Dioscorea composita Hemsl.	

90 Rauwolfia bivittata Jacq.
1 ~~Dahlia~~ Hidalgoa ternata La Llave + Lex.
2 Solanum torvum Sw.
3 Ricinus communis L.
4 Cissus sicyoides L.
5 Solanum Donnell-Smithii Coult.
6 Amaranthus cruentus L.
7 Cassia (Peiranisia) Hoyllei (B.+R.)
8 Machaonia acuminata H.+B.
9 Heliconia pendula Wawra
100 Peperomia chiltepecana Trel. n. sp. Type
1 Solanum sideroxyloides Schl.
2 ~~Vitis~~ Sicydium Tuerckheimii D. Sm.
3 Smilax lanceolata L.
4 Not received
5 Struthanthus geniculata (C.+S.) Blume
6 Anoda cristata (L.) Schlecht.
7 Not received
8 Prockia crucis L.
9 Stigmaphyllon Humboldtianum (DC.) A. Juss.
110 Croton lobatus L.
1 Dictyanthus strigosus Congatti + Standl. det. Foster
2 Not received
3 Smilax mollis H.+B.
4 Not received
5 "
6 "
7 Rhipsalis cassutha Gaertn.
8 Anthurium scandens (Aubl.) Engl.
9 Phoebe Barbeyana Mez? ex char.

F 12 0 Desmodium affine Schlecht. det. Schubert
~~sp. Please ask Miss Schubert to name.~~
✓ 1 Geophila herbacea (L.) Schum. Rub
✓ 2 Guararibea funebris (La Llave) Vischer
✓ 3 Licaria capitata (C. + S.) Kosterm. ?
✓ 4 Smilax Regelii Killip & Morton, Probably new to Mexico.
5 Not received
✓ 6 ~~Zamia~~ Dioon spinulosum Dyer
✓ 7 Chamaedorea Schiedeana Mart.?
8 Not received
9 "
13 0 "
✓ 1 Paliconrea Galeottiana Mart. ?
✓ 2 Anthericum sp. Possibly new, but I do not care to describe.
✓ 3 Psychotria involucrata Swartz Rub
4 not received
5 "
6 "
✓ 7 Eriosema diffusum (H.B.K.) Don Leg
✓ 8 Oxalis sepium St. Hil.
9 Not received.
✓ 14 0 Codonanthe crassifolia (Focke) Morton. New to ~~Mexico~~ Oaxaca.
✓ 1 Tinantia sp. Perhaps new, but I do not care to describe. Com
✓ 2 Chiococca alba (L.) Hitchc.
✓ 3 Mandevilla subsagittata (R. & S.) Woods. Apoc
4 Euph. Acalypha Matudai Lundell Spec
5 Not received
6 "
✓ 7 Psychotria horizontalis Swartz ?
✓ 8 Lycopodium linifolium L.
✓ 9 Crescentia alata H.B.K. ?

✓	15	0	Tetracera serrulifolia (Lam.) Tr. & Pl.	?
✓		1	Psychotria patens Swartz	Rub
✓		2	Bertiera guianensis Aubl.	Rub
✓		3	Erythroxylon lucidum H.B.K.	
✓		4	Siparuna nicaraguensis Hemsl.	
✓		5	Hemiadelphia podopogon (DC.) Baill. Hunt & Oaxaca. Bign	
		6	Adelia secana (L.) Urban det L.B. Smith	Euph
✓		7	Eugenia axillaris (Sw.) Willd.	?
✓		8	Casearia arguta H.B.K.	
		9	Not received.	
✓	16	0	Cassia bacillaris L.	?
✓		1	Bomarea glorioisa (C. & S.) M. Roem.	
✓		2	Crotalaria vitellina Ker.	
✓		3	Dioscorea macrostachya Benth.	
✓		4	Saracha procumbens (Cav.) R. & P.	
✓		5	Jacquemontia n. sp.?	
✓		6	Borreria asperifolia (M. & G.) Rob.	Rub
✓		7	Byttneria aculeata Jacq.	
✓		8	Passiflora Oerstedii var. choconiana (Vatke) Killip	
		9	[illegible]	?
✓	17	0	Melothria guadalupensis (Sprenq.) Cogn.	
✓		1	Inga laurina Willd.	Leg
✓		2	Solanum nigrum L.	
✓		3	Lonchocarpus sp.	Leg
✓		4	Hiraea obovata Nazu.	
		5	Not received.	
✓		6	Ardisia compressa H.B.K.	Myrs
✓		7	Helicteres guazumifolia H.B.K.	
✓		8	Setaria vulpiseta (Lam.) R. & S.	Gram
✓		9	Trema micrantha (L.) Blume	

1	2	0	Bixa orellana L. ?
		1	Cassia Tora L.
		2	Cassia occidentalis L. ?
		3	Not received
		4	Psittacanthus americanus (Jacq.) Mart.
		5	Cissus sp. Perhaps new.
		6	Combretum farinosum H.B.K. ?
		7	~~Cayaponia~~ Dicyclium tamnifolium (H.B.K.) Cogn.
		8	Not received
		9	Hibiscus costatus Rich.
1	9	0	Not received
		1	Crusea calocephala DC. Rub.
		2	Euphorbia [illegible]
		3	Malvaviscus arboreus var. spiralis (Cav.) Schery Mals
		4	Phaseolus sp. ? = 415 Leg
		5	~~Hibiscus~~ Calliandra acuminata H.B.K.
		6	Sarcostemma crassifolia Benth. Spec
		7	Hibiscus abelmoschus L.
		8	Solanum Lundellii Standl.
		9	Piper tuxtepecanum Trel. n. sp. type Spec
2	0	0	Cymbopetalum pendulifl orum (Mart.) Baill.
		1	Luehea speciosa Willd. Til
		2	Phytolacca rivinoides Kunth & Bouché
		3	Pithecellobium calostachys Standl. Mim
		4	Desmodium sp. Should be referred to Mim Schubert. Leg.
		5	Aphelandra Deppeana C. & S.
		6	Myriocarpa bifurca Liebm.
		7	Trophis racemosa (L.) Urban Mor
		8	Not received
		9	Parathesis or Ardisia sp. fruit only. Not matched. ?

✓	210	Myginda oxyphylla Blake		?
	1			?
✓	2	Baccharis trinervis var. rhexioides (HBK) Baker		
✓	3	Cissampelos tropaeolifolia DC.		
✓	4	Phyllanthus brasiliensis (Aubl.) Poir.		
✓	5	Niraea obovata Hdzn.		
✓	6	Cleome serrata Jacq.		
✓	7	Paullinia costaricensis Radlk.		
✓	8	Eugenia axillaris (Sw.) Willd.		Myrt
✓	9	Ipomoea tiliacea (Willd.) Choisy		
✓	220	Desmodium tortuosum (Swartz) DC. det. Schubert		
✓	1	Croton macrodontus Muell. Arg.		
✓	2	Malpighia glabra L.		?
✓	3	Oreopanax guatemalensis (Lem.) Decne. & Pl. det. Smith		
✓	4	Scutellaria richardsa G. Don fil.		
✓	5	Cupania glabra Sw.		Sap
✓	6	Spigelia Anthelmia L.		Spig
✓	7	Rivina laevigata (L.) Pers. det. ~~Heliotropium~~		~~Cord~~
✓	8	Emilia sonchifolia (L.) DC.		Comp
✓	9	Ampelia Zanonia (L.) HBK.		Cissus
✓	230	Zebrina pendula Schnitz.		Comm
✓	1	Rondeletia stachyoidea D. Don. New to Mexico		Rub
✓	2	Solanum geminiflorum M. & S.?		
✓	3	Cyathula achyranthoides (HBK.) Moq.		Amar
✓	4	Byttneria catalpifolia Jacq.		
✓	5	Schrankia leptocarpa DC.		
✓	6	Rivina humilis L.		
✓	7	Picramnia quaternaria D. Don. New to Mexico		?
✓	8	Antigonon cinerascens (M. & S.)		
✓	9	Lasiacis procerrima (Hack.) Hitche. Immature		~~Gram~~

240 Crotalaria maypurensis H.B.K.
1 Chrysophyllum mexicanum Brandeg. Sapot
2 Cissampelos tropaeolifolia DC.
3 Spigelia mexicana A. DC. ex char. Spigel
4 Solandra nitida Zucc.
5 Gouania polygama (Jacq.) Urban
6 Boehmeria ramiflora Jacq. Urt.
7 Jacquemontia Pringana Hemsl. & Walp. Conv
8 Solanum piliferum Benth.
9 Matelea tenuis Woods.? ?
250 Not received
1 Hyptis mixta Epl. n. sp-type
2 Arrabidaea Blanchetii DC. new to Oaxaca. Bign
3 Ipomoea tuxtlensis House
4 Aphelandra Hoppeana E. C. & S. Acanth
5 Jacquemontia oaxacana (Meisn.) Hallier Conv
6 Chaetocalyx latisiliqua (Hemsl.) Benth. Rare in Mexico. Leg
7 Casearia guianensis (Aubl.) Urban ?
8 Cynanchum paraffine Woods. n. sp. type
9 Spigelia sp. aff. Anthelmia L.
260 Crotalaria nitens H.B.K.
1 Cassia spectabilis DC.
2 Smilax mollis H. & B.
3 Trophis racemosa (L.) Urban Urt.
4 Mimosa Acacia (Senegalia) potosina (B. & K.) Range extension
5 Melochia pyramidata L.
6 Psychotria microdon (DC.) Urban Rub.
7 Stigmaphyllon Humboldtianum (DC.) A. Juss.
8 Tradescantia sp.
9 Pseuderanthemum alatum (Nees) Radlk. Acanth

✓	27	0	Dalechampia scandens L.	Euph
✓		1	Cassia diphylla L.	Cassia
✓		2	Mucuna pruriens (L.) DC	
✓		3	Hamelia erecta Jacq.	
✓		4	Wenderothia villosa (Benth.) Piper	Leg
✓		5	Manfreda brachystachys (Cav.) Rose	Agav
✓		6	Calliandra Palmeri Wats. Range extension.	
✓		7	~~Borreria~~ Crusea sp. cf. cruciata Wats.	
✓		8	Mimosa albida H.+B.	
✓		9	Tephrosia viciioides Schlecht.	Tephros
✓	28	0	Jacquemontia oaxacana (Meisn.) Hallier	Conv
✓		1	Petastoma patelliferum (Schl.) Miers	Begn
✓		2	Euphorbia graminea Jacq.	
✓		3	Pharus latifolius L.	Gram
✓		4	Thunbergia alata Boje	
		5		7
✓		6	Lexmenia frutescens (Mill.) Blake	Comp.
✓		7	Tradescantia cumanensis Kunth	
		8	Not received	
		9	Cuphea setosa var. glabrescens Koehne ex Foster	Spec
✓	29	0	Manettia coccinea (Cav.) Willd.	Rub
✓		1	Plukenetia angustifolia Standl. New to Mexico	
✓		2	Nectandra glabrescens Benth.	Laur
✓		3	Cestrum panamense Standl.	
		4	Acalypha cf macrostachyoides Müll. Arg. ex Engl.	
✓		5	Justicia candata A. Gray	Acanth
		6	Not received	
✓		7	Calliandra tetragona Benth.	
✓		8	Arrabidaea chica (H.+B.) Verl.	Bign
✓		9	Mimosa pudica L.	

300 Mimosa mexiquitensis Britton. A rarity. Mim
1 Cupania macrophylla Rich.
2 Cayaponia attenuata (N. & A.) Cogn. Cuc
3 Ipomoea anisomeres Rob. & Bartl.
4 Calliandra Lambertiana (Sow) Benth. ? ex char.
5 Indigofera mucronata Spreng.
6 Amphilophium paniculatum (L.) H.B.K. Bign
7 Ipomoea purga (Wend.) Heyne
8 Chamissoa altissima (Jacq.) H.B.K.
9 Ipomoea purpurea (L.) Lam.
310 Cassia (adipera) submontana (B. & K.)
1 Seophila herbacea (L.) Schum. Rub
2 Bauhinia) Herrerae Britt.
3 Gouania lupulina (L.) Urban
4 Turbina corymbosa (L.) Raf.
5 Cassia hirsuta L.
6 Cordia sp. Please get name from Johnston. Spec
7 Centrosema sagittatum (H.B.K.) Benth.
8 Acacia angustissima (Mill.) Kuntze
9 Combretum mexicanum H. & B. ?
320 Cassia quiedondillo Micheli ?
1 Allophylus cominia (L.) Sw. Sap
2 Dalbergia glabra (Mill.)
3 Clematis grossa Benth.
4 Croton reflexifolius H.B.K. Euph
5 Verbesina Tonduzii Greenm. New to Mexico. Comp
6 Lonchocarpus minimiflorus Ld. Sm.
7 Myriocarpa longipes Liebm.
8 Tournefortia sp. Please get name from Johnston Spec
9 Mimosa Maxonii Standl. New to Mexico.

330 ~~Phaseolus~~ Wenderothia villosa (Benth.) Piper
1 Selaginella sp. Cannot be named at present. Our material is rare in Europe.
2 Selaginella sp. " " " " " " " " " " "
3 Solanum macranthemum Hunzl
4 Caperonia chiltepecensis Croiz. type Euph.
5 Calonyction aculeatum (L.) House
6 Cissus sicyoides L.
7 Hybanthus attenuatus (H.B.) S.K. Schulze
8 Ipomoea tiliacea (Willd.) Choisy
9 Buxus Bartlettii Standl. New to Mexico.
340 Not received
1 Acinum micranthum Willd. Spec
2 Phyllanthus Liebmannianus Muell. Arg ex char. del Croizat
3 Acalypha cf macrostachyoides Muell. Arg. det Croizat
4 Piper populifolium var. Martinezii Trel. n. var. type
5 Casearia arguta HBK. form
6 Not received
7 Cassia pilifera Vogel
8 ~~Geoprita~~ Coccocypselum hirsutum Bartl.
9 Cassia Tagera L. Leg
350 Desmodium barbatum (L.) Benth. + Oerst.
1 Dioscorea convolvulacea C. + S.
2 Calea zacatechichi Schlecht. Comp
3 Tripsacum dactyloides L. Abnormal.
4 Pterculina tuberosa (L.) Meisn.
5 Lycopodium cernuum L.
5 bis ~~Phaseolus~~ Centrosema virginianum (L.) Benth.
6 ~~Banisteria~~ Heteropteris Beecheyana Juss
7 Sapindus saponaria L.
8 Pothomorphe chiltepecana Trel. n. sp. Type Spec
9 Richardia scabra L.

3	6.0	Peperomia tuxtepecensis Trel. n. sp. type	type
	1	Mimosa Watsonii B. & R. Rob. New to Mexico.	Mim
	2	Clematis grossa Benth.	
	3	Cynoctonum mitreola var. orthocarpa Hochr.	
	4	Acalypha amentacea Poepp. & Endl. det. Greiger	
	5	Borreria dasycephala DC.	Rub
	6	Hyptis atrorubens Poit.	Lam
	7	Serjania goniocarpa Radlk.	
	8	Hibiscus bifurcatus Cav.	
	9	Lycios sp.?	Cuc.
37	0	Clematis dioica L.	
	1	Xylosma sp.	Casearia
	2	Clerodendron fragrans var. pleniflorum Schauer det. Moldenke	
	3	Hyptis savannarum Briq.?	Lam
	4	Jouania aff. lupulina (L.) Urb.?	
	5	Belotia tabascana Sprague	
	6	Nectandra sanguinea Rottb.	Laur.
	7	Jacobinia umbrosa (Benth.) Blake	Acanth
	8	Tetrapterys schiedeana C. & S.	
	9	Not received	
3	8 0	Croton draco Schl.	Euph
	1	Calyptronium mucunoides Desv.	
	2	Not received	
	3	Hypericum pratense C. & S.	
	4	Davilla Kunthii St. Hil.	
	5	Buchnera mexicana Hemsl.	
	6	Tephrosia aff. submontana (Rose)	
	7	Waltheria glomerata Presl	
	8	Triumfetta semitriloba Jacq.	
	9	Bauhinia unguulata L.	

✓	3	0	Verbesina turbacensis HBK.	Comp
✓		1	Russelia ~~sarmentosa Jacq.~~ coccinea (L.) Wettst. det. Carlson ~~verticillata HBK.~~	
✓		2	Cenchrus Brownii R. + S.	
✓		3	~~Hoffmannia~~ Notopteris scabridula Blake	
✓		4	Serjania cf. punctata Radlk.	
✓		5	~~Lythrum~~ Randia malacocarpa ~~Standl~~? Sterile.	
✓		6	~~Lythrum~~ Cuphea salicifolia C. + S.	
✓		7	Oxalis gregaria Rose	
		8	not received	
		9	"	
✓	4	0	Elaterium ciliatum Cogn.	Cuc
		1	Not received	
✓		2	Smilax mollis H. + B.	
✓		3	Portulaca pilosa L.	
✓		4	Jussiaea suffruticosa L.	
✓		5	Bacopa procumbens (Mill.) Greenm.	Scroph
✓		6	Rivina humilis L.	
		7	Not received	
✓		8	Drymaria cordata (L.) Willd.	
✓		9	~~Gomphrena~~ Alternanthera obovata (M. + S.) Killip.	
4	1	0	Not received	
✓		1	Asclepias curassavica L.	
✓		2	Justicia comata (L.) Lam.	?
✓		3	Hymenachne amplexicaulis (Rudge) Nees	Gram
✓		4	Polygonum punctatum Ell.	
✓		5	Phaseolus sp.? = 194	Leg.
✓		6	Hyptis mutabilis (Rich.) Briq.	Spec
✓		7	~~Gouania~~ Paullinia tomentosa Jacq.	
✓		8	Aegiphila Lehmanna S. Stend. ~~det. Standley~~	Spec
✓		9	Quercus sp. with gall.	

420	Pseudabutilon spicatum (H.B.K.) Fries		Malv
1	Eupatorium solidaginoides H.B.K.		Comp.
2	Psychotria hebeclada DC.		Rub
3	Psychotria cf. macrophylla R. & P.		Rub
4	Cayaponia racemosa (Sw.) Cogn. ?		Cuc
5	~~Hewettia~~ Ipomoea umbellata G. F. W. Meyer		~~Euc~~
6	Bidens squarrosa H.B.K.		
7	Salvia occidentalis Sw.		Sym
8	Schizocarpum Liebmannii Cogn. ? ex char.		Cuc
9	Spigelia mexicana A. DC. ex char.		Rub
430	Elephantopus mollis H.B.K.		
1	Xiphidium coeruleum Aubl.		?
2	Amphilophium paniculatum (L.) H.B.K.		
3	Lobelia xalapensis H.B.K.		Lob ?
4	Trecine Celosia L.		
5	Zexmenia frutescens (Mill.) Blake		Comp
6	Calea zacatechichi Schlecht.		Comp
7	Zornia diphylla (L.) Pers.		
8	Buchnera mexicana Hemsl.		
9	Crusea calocephala DC.		
440	Bidens squarrosa H.B.K.		
1	Malachra fasciata Jacq.		
2	Anoda cristata (L.) Schlecht.		
3	~~Dahlia~~ Hidalgoa ternata La Llave & Lex.		
4	Barleria micans Nees		Acant
5	Athyrocarpus rufipes (Benth.) Standl.		
6	Tithonia diversifolia subsp. glabrescula Blake		Comp
7	Solanum torvum Sw.		
8	Serjania goniocarpa Radlk.		Sap
9	Dioscorea densiflora Hemsl.		

45 0 Piper submaritima Trel. n. sp. Type
1 ~~Celosia~~ Chamissoa altissima (Jacq.) HBK.
2 Heliocarpus glabrescens Hochr. ex char.
3 Operculina tuberosa (L.) Meisn.
4 ~~Cuscuta~~ Xylosma sp.
1 Desmodium tortuosum (Swartz) DC. det. Schubert
6 Davilla Kunthii St. Hil. Dill
7 Mikania micrantha HBK. Comp.
8 Sicyos sp.? = 369 Cuc
9 Spigelia Anthelmia L. Spigel
460 Rivina humilis L.
1 Triumfetta lappula L.
2 Tecoma stans (L.) HBK.
3 Sicydium Tuerckheimii W. Sm. Vit
4 Selaginella sp.
5 Otopappus Blakeana Morton, sp. nov. Type. Comp.
6 Pavonia paniculata Cav. Mals
7 Phyllanthus chlorophaeus Baill. ex char. det Croizat
8 Schizocarpum Liebmannii Cogn. ? ex char. Cuc
9 Acotea perseifolia Mez + W. Sm. Nov to Oaxaca. ?
470 Hibiscus bifurcatus Cav.
1 Cayaponia racemosa (Sw.) Cogn. ? Cuc
2 Russelia ~~sarmentosa~~ coccinea (L.) Wiltst. Jacq. det. Carlson
3 Styptei mutabilis (Rich.) Briq.
4 Not received
5 Cassia fagifolia Bertol.
6 Phytolacca rivinoides Kunth + Bouché
7 Cordia sp. Ref name from Johnston
8 Myriocarpa longipes Liebm.
9 Tournefortia sp. Ref name from Johnston

480	~~Ho~~ Urena Lobata (Jacq. Spreng. from Brit.		
1	Sapindus ~~sp~~ saponaria L.		Mel
2	Verbesina turbacensis H.B.K.		Comp.
3	Lasiacis oaxacensis (Steud.) Hitchc.		Gram
4	Eupatorium pycnocephalum Less.		Comp.
5	Croton Lobaco Schl.		Euph.
6	Cardiospermum halicacabum L.		
7	~~Blanco~~ Heteropteris Beecheyana Juss.		
8	Nectandra reticulata (R. & P.) Mez		Laur.
9	Not received		
490	Tridax procumbens L.		
1	Manettia coccinea (Aubl.) Willd.		Rub
2	Crotalaria longirostrata H. & A.		
3	Malvaviscus arboreus var. spiralis (Cav.) Schery		Malv
4	Pontederia lanceolata Nutt.		
5	Calliandra tetragona Benth.		
6	Vitis Bourgaeana Planch.		
7	Tetrapteris Schiedeana C. & S.		Malp.
8	Clematis dioica L.?		
9	Cissus sicyoides L. teratological.		
500	Eupatorium macrophyllum L.		Comp.
1	Pilea pubescens Liebm.		
2	Pisonia aculeata L.		
3	~~Squibel~~ Scutellaria, pinchalcea J. D. Sm.		
4	Lonchocarpus minimiflorus D. Sm.		
5	~~Lythraceae~~ Cuphea salicifolia C. & S.		
6	Melochia interrupta Schlecht. A rarity.		Malv.
7	Not received		
8	Dioscorea densiflora Hemsl.		
9	Turbina corymbosa (L.) Raf.		Conv.

✓	5710	Heliocarpus appendiculatus Turcz.	
✓	1	~~Canavalia~~ Wenderothia villosa (Benth.) Piper	
✓	2	Teramnus uncinatus (L.) Sw.	Leg
✓	3	Calopogonium caeruleum (Benth.) Hemsl.	
✓	4	Rhynchosia longeracemosa M. & B.	
✓	5	Mikania punctata Klatt	Comp
✓	6	Manettia coccinea (Aubl.) Willd.	Rub
✓	7	Casearia sylvestris Sw.	
✓	8	Odontonema callistachyum (C. + S.) Kuntze	Acanth
✓	9	Phaseolus speciosus H.B.K.	Leg
✓	5720	Eugenia jambos L.	?
✓	1	Desmodium ~~sp. Please get name from Dr. Schubert~~ isotrum (Miller) Urban det. Schubert	
✓	2	Castilleja communis Benth.	
✓	3	Vernonia tortuosa (L.) Blake (syn. V. schiedeana)	
✓	4	Ipomoea mairetii Choisy	
	5	Eugenia sp.	?
✓	6	Otopappus Blakeana Morton	Comp.
✓	7	Eupatorium pycnocephalum Less.	Comp
✓	8	Centrosema Plumieri (Turp.) Benth.	
✓	9	Solanum verbascifolium L.	
✓	5730	Picramnia quaternaria D. Sm.	?
✓	1	Piper chiltepecana Trel. n. sp. Type	
	2	Begonia heracleifolia S. & C. det. Smith & Schubert	
✓	3	Justicia breviflora (Nees) Rusby	Acanth
✓	4	Cassia reticulata Willd. New to Mexico	
✓	5	Mandevilla subsagittata (R. & P.) Woods.	
✓	6	Cuscea calocephala DC.	
✓	7	Lagascea helianthifolia (H.B.K.) Cass.	
✓	8	Eupatorium glaberrimum DC. ex char.	
✓	9	Phaseolus speciosus H.B.K. var.	?

540	Phaseolus viridis Piper		
1	Ardisia compressa H.B.K.		
2	Erechtites hieracifolia (L.) Raf.	Comp.	
3	Euphorbia Mansoniana Kl. & Gcke		
4	Melia azedarach L.		
5	Not received		
6	Eugenia capuli (C. + S.) Berg		?
7	Casearia nitida (L.) Jacq.		
8	Buxus Bartlettii Standl.		!
9	Lauraceae. Not matched in U.S.N.H.		!
550	Aeschynomene americana L.		
1	Waltheria sp. ??		?
2	Biophytum dendroides (H.B.K.) DC.		
3	Not received		
4	Baccharis trinervis var. rhexioides (H.B.K.) Baker	~~Comp~~	
5	Licaria capitata (C. + S.) Kosterm.	Laur.	
6	Syngonium podophyllum Schott	Arac	
7	Neurolaena lobata (L.) R. Br.	Comp	
8	Ageratum Houstonianum Mill.	Comp	
9	Not received		
560	"		
1	"		
2	"		
3	"		
4	Dalbergia granadillo Pittier	Leg	
5	cf. Robinsonella edentula Rose + U. Sm.		?
6	Begonia heracleifolia S. & C. det. Smith & Schubert		
7	Spilanthes americana (Mutis) Hieron.	Comp	
8	[illegible]		?
9	~~Not received~~		

Matuda Cat. 2-291

1 spec.

16180
1
2
3
4
5
6
7
8
9
16190
1
2
3
4
5
6
7
8
9
16290
1
2
3
4 Mikania cordifolia (L.) Willd.
5 Alternanthera sp. Can perhaps be reported later.
6 Iresine nigra Uline & Bray
7 Cratoeva palmeri Rose?
8 Nectandra salicifolia (H.B.K.) Nees
16209 ~~Orchidaceae. Can be reported later.~~ Spiranthes hemichrea Lindl. det. Correll

Cattleya aurantiaca Lindl. det. Correll

16210 ~~Orchidaceae. Can be reported later.~~

16211 ~~Senecio~~ Liabum glabrum var. hypoleucum Greenm.

2 Buddleja sp.

3 Chamaestoma mecistandrum Wenn. Smith

4 Holodiscus argenteus (L. f.) Maxim.

5 Cyphomandra betacea Sendtn.

6 Bunchosia lanceolata Turcz.

7 Verbena carolina L.

8 Bravaisia integerrima (Spreng.) Standl. det. Leonard

9 Chamissoa altissima (HBK.

16220 Heliocarpus glandulifera Robinson

1 Calathea lutea (Aubl.) Meyer

2 Cassia tora L. (discarded)

3 Lonchocarpus minimiflorus Wenn. Smith

4 ~~Nectandra~~ Phoebe Reticulifolia (Meisn.) Mez

5 Eupatorium tuerckheimii Klatt

6 Rubiaceae. Can probably be reported later.

7 Fuchsia arborescens Sims (discarded)

8 Ardisia ovandensis Lundell

9 Conostegia sphaerica Triana

16230 Buddleja americana L.

1 Passiflora rugosissima Killip det. Killip

2 Lopezia integrifolia DC. (discarded)

3 Stevia elongata var. caracasana (DC.) Rob.

4 Lobelia laxiflora (HBK.

5 Archibaccharis flexilis Blake

6 Archibaccharis mucronata var. paniculata (Wenn. Smith) Blake

7 Rubiaceae. Can probably be reported later.

8 Tragia volubilis L.

9 Solanum cervantesii Lag.

1624 0 Thryallis glauca (Cav.) Kuntze
1 Roupala borealis Hemsl.
2 Onoseris rupestris (Benth.) greenm.
3 ~~Centaurium~~ Erythraea sp. Can be reported later.
4 Tresine arbuscula Uline + Bray
5 Cestrum baenitzii Lingelsh.
6 Prunus skutchii L. M. Johnst.
7 Montanoa myriocephala Rob. + Greenm.
8 Rheedia edulis (Seem.) Triana + Planch.
9 Hansteinia glandulosa (Oerst.) Lindau vel aff. det. Lenard
1625 0 Senecio cristobalensis Greenm.
1 Archibaccharis asperifolia (Benth.) Blake
2 Canna edulis Ker-Gawl.
3 Miconia prasina (Swartz) DC.
4 Miconia glaberrima (Schlecht.) Naud.
5 Hasseltia guatemalensis Warb.
6 Rumfordia media Blake
7 Senecio uspantanensis (Conet.) greenm.?
8 Eupatorium sp.
9 Clethra matudae Lundell
1626 0 Arenaria lanuginosa (Michx.) Rohrb.?
1 Befaria laevis Benth.
2 Hemichlaena fasciculata Benth.
3 Chiapasia nelsonii Britt. + Rose. A great rarity.
4 ~~Banisteria~~ a Citharexylum mocinii var. longibracteatum Moldenke
5 Styrax polyneurus Perkins
6 Picramnia quaternaria Donn. Smith
7 Rubiaceae. Can probably be reported later.
8 Stevia lucida Lag.
9 Pseuderanthemum cuspidatum (Nees) Radlk. det. Lenard

16270 Canavalia mexicana Piper
1 ~~Castalia~~ Nymphaea ampla (Salisb.) DC.
2 Tillandsia dasyliriifolia Baker
3 Rauwolfia sp. Can be reported later
4 Phyllanthus acidus (L.) Skeels
5 Pistia stratiotes L. (discarded)
6 Egletes sp. Can not be named at present as our material is on loan.
7 Eragrostis hypnoides (Lam.) B.S.P. (discarded)
8 Cuchea purpurascens (Swartz) DC.
9 Avicennia nitida Jacq.
16280 Ruprechtia chiapensis Lundell
1 Ruellia paniculata L. det. Leonard
2 Heliotropium Curassavicum L.
3 Diospyros yatesiana Standl.
4 Cressa truxillensis H.B.K.
5 Jacquinia pungens A. Gray
6 Capparis flexuosa L.
7 Quassia amara L.
8 Bignoniaceae. Can be reported later.
9 Pithecellobium recordii (B.&R.) Standl.
16290 ~~Adelobotrys~~ sp. Ruprechtia chiapensis Lundell
1 Cabomba pianbyensis Gardn.
2 Eichornia azurea (Swartz) Kunth
3 Limnanthemum humboldtianum (H.B.K.) Griseb.
4 Conocarpus erecta L.
5 Conocarpus erecta L.
6 Tidestromia lanuginosa (Nutt.) Standl.
7 Bumelia laetevirens Hemsl.
8 Jacquinia pungens A. Gray
9 Cordia alba (Jacq.) Roem. & Schult.

16300 Cassia biflora L. (discarded)
16301 Trichilia parvifolia C. DC.
2 Psychotria oerstediana Standl.
3 Cordia curassavica Roem. + Schult.
4 Salpianthus arenarius Humb. + Bonpl.
5 Acacia farnesiana (L.) Willd. (discarded)
6 Tunastrum sp. Can not be named at present as our material is on loan.
7 Crotalaria sagittalis L.
8 Fimbristylis spathacea Roth
9 Pectis arenaria Benth.
16310 Monanthochloe littoralis Engelm. (discarded)
1 Acacia polypodioides Standl.
2 Cordia curassavica Roem. + Schult.
3 Acalypha nicaraguensis Pax + Hoffm. affs.
4 Randia sp. Can probably be reported later.
5 Casearia nitida (L.) Jacq. (discarded)
6 Eugenia axillaris (Swartz) Willd.
7 Pisonia aculeata L.
8 Passiflora foetida var hibiscifolia (Lam.) Killip det. Killip
9 Lonchocarpus latifolius (Willd.) H.B.K.
16320 Corchorus orinocensis H.B.K.
1 Ipomoea pes-caprae (L.) Roth
2 Stemmadenia mollis Benth.
3 Salpianthus arenarius Humb. + Bonpl.
4 Jacquemontia pringlei A. Gray?
5 Loeselia ciliata L.
6 Combretum farinosum H.B.K.
7 Randia mitis L.
8 Capparis indica (L.) Fawc. + Rendle
9 Pleurothallis sp. det. Correll
~~Can perhaps be reported later.~~

Pleurothallis grobyi Batem. + Lindl. det. Correll

16330 ~~Orchidaceae. Can be reported later.~~

1 ~~Fraxinus~~ Pithecellobium dulce (Rox6.) Benth.

2 Batis maritima L.

3 Prosopis juliflora (Swartz) DC.

4 Rhacoma riparia Lundell?

5 Achatocarpus nigricans Triana

6 Jacquinia pungens A-Gray

7 Asclepias longicornu Benth.

8 Capraria biflora L.

9 Prosopis juliflora (Swartz) DC.

16340 Abutilon andrieuxii Hemsl.

1 Trichilia hirta L.

2 Waltheria americana L.

3 Solanum ochraceo-ferrugineum (Mumal) Fernald

4 Coccoloba cozumelensis Hemsl.

5 Opuntia sp.

6 Opuntia decumbens Salm-Reyck?

7 Bumelia persimilis Hemsl.

8 Casearia nitida (L.) Jacq.

9 Leitaxis guatemalensis (Muell. Arg.) Pax + Hoffm.

16350 Philoxerus vermicularis (L.) R. Br.

1 Neea psychotrioides Donn. Smith. (discarded)

2 Avicennia nitida Jacq. (discarded)

3 Avicennia bicolor Standl.

4 Bursera excelsa (H.B.K.) Engl.

5 Achatocarpus nigricans Triana

6 Achatocarpus nigricans Triana (discarded)

7 Cassia emarginata L.

8 Conyza lyrata H.B.K.

9 Passiflora foetida var. maxonii Killip det. Killip

1636 0 Trichilia cuneata Radlk.
1 Not recognized.
2 Thouinidium decandrum (H. + B.) Radlk.
3 Casearia javitensis H.B.K.
4 Miconia impetiolaris (Swartz) D. Don
5 Eupatorium collinum DC.
6 Croton niveus Jacq.
7 Paullinia turbacensis H.B.K. New to Mexico.
8 Zamia muricata Willd.
9 Rinorea sp. Is it really a vine? Flowering plants are necessary for identification.
1637 0 Rheedia edulis (Seem.) Triana & Planch.
1 Sapium lateriflorum Hemsl.
2 Tournefortia schomburgkii DC.
3 Tournefortia
4
5
6
7
8
9
1638 0
1
2
3
4
5
6
7
8
9

Read Trans 4 8 — Spanish — see p 96 —

5240 Mimosa myriadena Benth. new to United America.
1 Goethalsia meiantha (Donn. Smith) Burret det. Read
2 Poikilacanthus macranthus Lindau det Lemaid
3
4
1
6 Macrolobium Swartzia sp. Perhaps new. det. Read
7
8
9
5250
1
2
3 Rondeletia sp. Perhaps new
4 Piper ripicola C.DC.
5 Piper barbulatum C.DC.
6 Adiantum tetraphyllum H. & B.
7 Spathiphyllum fulvovirens Schott ex desc.
8 Herpetacanthus sp. nov. aff. panamensis det. Lemaid
9 Lomariopsis vestita Fourn.
5260 Piper sp.
1 Trichomanes tuerckheimii Christ
2 Trichomanes diversifrons (Bory) Mett.
3 Will sep. & Cat. Read
4 Capsicum n. sp.?
5 Siparuna grisea Perkins
6 Ruellia tubiflora var. hirsuta Lemaid det. Lemaid (ined.)
7 Ruellia tubiflora var. tetrastichantha (Lindau) Lemaid det. Lemaid
8 Piper concepcionis Trel.
9 Piper esquivelanum Trel.

5270 Piper ducis Trel.
1 Clibadium pittieri Greenm.
2 Polypodium draco Maxon
3 Grissiaea latifolia Benth.
4 Cassia n. sp. det. Rudd
5 [illegible] Trel
6 Cyphomandra costaricensis Hemsl. Smith
7 Caperonia palustris (L.) St. Hil. det. Rudd
8 Chamaecrista stenocarpa (Vogel) Standl. det. Rudd
9 Boerhaavia erecta L. det. Rudd
5280 Borreria densiflor. DC. det Rudd
1 Ipomoea umbellata Mey. det. Rudd
2 [illegible]
3 Ipomoea syringifolia Meisn. det. Rudd
4 Aphelandra tetragona (Vahl) Nees vel aff. det Leonard
5 Psychotria sp.
6 Tovomitopsis costaricana Tr. & Pl. var. det. Rudd
7 Ruellia stemonacanthoides (Oerst.) Hemsl. det Leonard
8 Carludovica oerstedii Hemsl.
9 Bolbitis pergamentacea (Maxon) Ching
5290 Tectaria angloba (Christ) Maxon
1 Streptochaeta sodiroana Hack. det. Swallen
2 Centrosema plumieri (Turp.) Benth. det. Rudd
3 Mendoncia tonduzii Turrill det. Leonard
4 Olmedia falcifolia Pittier
5 Piper sp.
6 Piper arboreum Aubl.
7 Piper imparipes Trel.
8 Anthurium bakeri Hook. f.
9 Cephaelis sp.

5300 Piper urophyllum C. DC.
- 1 Peperomia Malvaviscus arborea var. pendulifolia (H. Schey
- 2 Hamelia axillaris Swartz det. Rudd
- 3 Cordia protracta L. M. Johnst. ? or n. sp. ?
- 4 Rudgea sp. nov. det. Leonard
- 5 Schradera axillaris (Nees) H. & C. det. Standley
- 6 Hecistopteris pumila (Spreng.) J. Smith
- 7 Hemitelia choricarpa Maxon
- 8 Psychotria berteriana DC. var aff.
- 9 [illegible] [illegible]

5310 Ardisia dodgei Standl. det. Rudd
- 1 Pachyrhizus vernalis var. integrifolius (Leonn. fm.) Clausen det. Rudd
- 2 Dichaea panamensis Lindl. det. Schweinfurth
- 3 Plenrothallis grobyi Batem. det. Schweinfurth
- 4 [illegible]
- 5 [illegible]
- 6 [illegible]
- 7 Piper acutissimum Trel.
- 8 Erythrodes querceticola var. venustula (Ames) Correll det. Schweinfurth
- 9 Polypodium fallax C. & S.

5320 Arrepsias moritzianus Schott
- 1 Selaginella sp. [illegible]
- 2 Aechmea pubescens Baker det. L. B. Smith
- 3 Guatteria amplifolia Tr. & Pl. ? det. Rudd
- 4 Ladenbergia sericophylla Standl.
- 5 Liabum polyanthum Klatt det. Rudd
- 6 Pentagonia sp. aff. tinajita Seem. Perhaps new.
- 7 Rhodospatha sp. ?
- 8 Dieffenbachia aurantiaca Engl.
- 9 Piper xanthostachyum C. DC.

533 0 Vivaticum dubium (Pittier) Standl. det. Rudd
1 Solanum nigrum var. americanum (Mill.) O. E. Schulz
2 Dioscorea polygonoides H. & B. here & Costa Rica
3 Indigofera mucronata Spreng. det. Rudd
4 Piper linearifolium C. DC.
5 Ruellia stemonacanthoides (Perst.) Hemsl. det. Leonard
6 0
7 Pleurothallis blaisdellii S. Wats. det. Schweinfurth
8 Clusia sp. det. Rudd
9 Trigonidium egertonianum Batem. det. Schweinfurth
534 0 Protium copal var. glabrum (Rose) Swart
1
2 Dryopteris turrialbae Rosenst.
3 Justicia sp. nov. det. Leonard
4 Epidendrum sculptum Rchb. f. det. Schweinfurth
5 Coccocypa sp.
6 Aegiphila costaricensis Moldenke det. Moldenke
7 Selaginella costaricensis Hieron.
8 Polypodium percussum Cav.
9 Trichomanes pinnatum Hedw.
535 0 Diplazia karatifolia L. Rich. (fruit teratological)
1 Asplundia leptospatha Harling type
2 ~~Carludovica macrophylla Pittier det. Rudd~~
3 Amphidasya n. sp. aff. ambigua Standl. det. Rudd
4 Rapeanthus apodemus Lemm. Smith
5 Tectaria plantaginea (Jacq.) Maxon
6 Tectaria rheosora (Baker) C. Chr.
7 Dennstaedtia ordinata (Kaulf.) Moore
8 Sonroubea guianensis Aubl. det. Rudd
9 Euphorbia hyssopifolia L.

5360 Mikania guaco H.&B.
1 Mikania micrantha HBK. det. Rudd
2 Calliandra n. sp.
3 Tridax procumbens L. det. Rudd
4 Athenaea n. sp.?
5 Sobralia decora Batem. Nov. & C.R. det. Schweinfurth
6 Pavonia metallica Linand det. Leonard
7 Pavonia maxonii Standl. vel sp. aff. det. Rudd
8 Prestonia portobellensis (Beurl.) Woodson det Rudd
9 Strychnos cf. panganophorum (L.) Kuntze
5370 Arthrodada laxa (L.Rich.) Beauv. det. Swallen
1 Pseuderanthemum sp. nov. det. Leonard
2 Matayba inaefolia Standl. Nov. & Cost. Ric.
3 Trichilia n. sp.
4 Norstenia choconiana var. integrifolia Lenn. Smith
5 Mascagnia sp. Perhaps nov. Fruit needed.
6 Maysna echinata Spruce. Nov. & Cost. Rica. Fruit desired.
7 Tovomitopsis costaricana Tr. & Pl. var. det. Rudd
8 Pipsa urophyllum C.DC.
9 Mupriocarpa izabalensis (Lenn. Smith) Killip. det. Killip
5380 Rhodospatha sp.?
1 Besleria n. sp.
2 Columnea n. sp.
3 Begonia glabra Aubl. det. L.B. Smith
4 Ardisia sp. det. Rudd
5 Testaria rhexiona (Baker) C. Chr.
6 Saurauia yasicae Loes.
7 Croton glabellus L. det. Rudd
8 Hirtella triandra Swartz det. Rudd
9 Mortoniodendron guatemalense var. costaricense Standley + Moldenke

5390 Selaginella flabellata (L.) Spring
- 1 Lasiacis scabrior Hitchc. det. Swallen
- 2 Solanum enchylozum Bitt.
- 3 Besleria n. sp.
- 4 [illegible]
- 5 Paullinia remuta Radlk. det. Rudd
- 6 Lozania pedicellata (Standl.) L.B. Smith Mem. Costaricc.
- 7 Heliconia subulata R. & P. det. Rudd
- 8 Scleria melaleuca Rchb. det. Hermann
- 9 Dioscorea remota Morton

[illegible]

5400
- 1 Virola sebifera Aubl. det. Rudd
- 2 Chamissoa altissima (Jacq.) HBK. det. Rudd
- 3 Tovomitopsis glauca Oerst. det. Rudd
- 4 Piper reticulatum L.
- 5 Besleria n. sp.
- 6 Aphelandra sinclairiana Nees det. Leonard
- 7 Panicum grande H. & C. det. Swallen
- 8 Eclipta alba (L.) Hassk. det. Rudd
- 9 Rhynchosia minima (L.) DC. det. Rudd

5410
- 1 Heteropteris macrostachya Juss. det. Rudd
- 1 Aphelandra sinclairiana Nees det. Leonard
- 1½ Aphelandra tetragona (Vahl) Nees var aff. det. Leonard
- 2 Pteris altissima Poir.
- 3 Piper sagittifolium C. DC. det. Rudd
- 4 Psychotria costaricensis Polak. det. Rudd
- 5 Drymonia n. sp.
- 6 Erythrodes trierkheimii (Schltr.) Ames Mem. & CR. det. Schweinfurth
- 7 Solanum sp.
- 8 Schlegelia parviflora (Benth.) Kanahkino det. Rudd
- 9 Cassia n. sp. det. Rudd

5420 Marila ~~Isp. Probably new.~~ ~~det. Rudd~~ pluricostata Standl. & Lunn. type

185